Shallow well can be deemed another major source for the drinking water. In fact 1,637 private and 460 public shallow wells are reported in the whole survey area. According to the survey, one diesel water pump was installed on a deep well in Ibrahim Khel village and provide drinking water for the whole village.

7. HEALTH FACILITIES

7.1 Clinics

The existence of three health clinics are reported in the whole survey area, of which one was C1 and two other were C2. Triple of the clinics, one C1 and two C2 are supported by both SCA and ARC. The supporting NGOs pay all costs including staff salary, material and administration cost. Out of 3 existed clinics, 2 clinics are housed in buildings made for clinics while the other one doesn't have any building (see Tables 7.1, 7.2 and Appendix K).

Table 7.1: Health facilities

Clinic				Number of staff					
	Type			Doctors		M.H.W		Nurses	
Number	C1	C2	C3	Male	Female	Male	Female	Male	Female
3	1	2	0	4	2	17	5	10	0

Building		Activities		Average Patient/day	EPI introduced	
Yes	No	D/W	H/D		Yes	No
2	1	6	7	67	3	0

No. of villages surveyed: 103

M.H.W = Medical health worker
D/W = Days/week
H/D = Hours/day

These clinics are open 6 days in a week and working 7 hour/day. An average of 67 patients receiving medical treatment daily. The main diseases reported in the surveyed area were diabetes, diarrhoea, fever, flue, leishmaniosis, malaria, measles, obstetrics, paralysis, T.B, typhoid, dysentery, kidney disease, pneumonia, polio, skin disease and stomachache.

A total of 38 medical and supporting staff are working in 3 existed clinics. Out of that two female and 4 male doctors, 10 male nurses along with 5 female and 17 male MHW are working in those clinics.

Table 7.2: Clinics funding sources

Type of Clinic	Funding sources: Salary SCA	Salary ARC	Material SCA	Material ARC
C1	0	1	0	1
C2	2	0	2	0
C3	0	0	0	0

No. of villages surveyed: 103

The majority (84%) of the villages in the survey area are located as far as less than 10 kms from the health clinic, followed by 11% of villages which have a distance of 11-30 kms, 4% of the villages are located in a distance of 31 to 60 kms from the clinic and only 1% of the villages of the survey area were located in a distance of more than 60 kms from the health clinic (see Table 7.3 and Appendix K1). The distance marked above 30 kms describes the location of the village from the center of the province (Jalalabad city).

Table 7.3: Distance of the villages from the nearest clinic (km)

No. of villages without clinic	% of villages in each range: <=10	11-30	31-60	>60
100	84	11	4	1

No. of villages surveyed: 103

7.2 Pharmacies

According to the survey, there are 39 private and 2 public pharmacies in the survey area. These pharmacy centers were located in only 24 villages and the remaining 79 villages had no medical store facilities. Out of the 79 villages without pharmacy center, 89% of the villages located in a distance 10 kms or less than 10 kms from the nearest medical store, 6% of the villages located at a distance between 11 and 30 kms, 4% remain in a distance of 31 to 60 kms and the last 1% located at a distance of more than 60 kms from the nearest pharmacy (see Tables 7.4, 7.5. and Appendices L and L1).

Table 7.4: Pharmacies

Number of pharmacies	
Private	Public
39	2

No. of villages surveyed: 103

During the interviewing with the households, it was discovered that the villagers mostly rely upon the medical facilities which were available in Jalalabad city, therefore the distance marked above 30 kms is the distance of the villages from Jalalabad.

Table 7.5: Distance of the villages from the nearest pharmacy (km)

No. of villages without pharmacy	% of villages in each range			
	<=10	11-30	31-60	>60
79	89	6	4	1

No. of villages surveyed: 103

8. EDUCATION

One home school, 21 primary and 5 secondary schools for boys and only 2 primary schools for girls were operating in the survey area. A total of 9,780 boys and 400 girls were attending schools classes. Based on the survey, 3 female and 288 male teachers were engaged teaching students in these schools (see Table 8.1 and Appendix M).

Table 8.1: Functioning schools

Number of functioning schools									
Boys				Girls				No. of teachers	
	Public				Public				
Home	Primary	Secondary	No. of students	Home	Primary	Secondary	No. of students	Male	Female
1	21	5	9780	0	2	0	400	288	3

No. of villages surveyed: 103

From 28 public schools operating in the survey area, only 12 schools had buildings and the other 16 schools were without buildings. Students were attending classes under trees and/or walls of the destroyed school buildings, where they can found shadow in order to protect themselves from the direct sunshine.

ARC was supporting two schools with staff salary and education material and SCA was supporting other two schools with only education materials (see Table 8.2 and Appendix M). The rest of schools were receiving government support.

Table 8.2: Education material, building and funding sources

Number of villages reported

Eduction material		Building		Name of funding sources					
				Salary			Material		
Yes	No	Yes	No	Govt	ARC	SCA	Govt	ARC	SCA
27	1	12	16	25	2	0	23	2	2

No. of villages surveyed: 103

Note: Mourgai sub village's primary school in Pera Khel area has no funding source.

9. DAMAGED INFRASTRUCTURES

A total of 8,713 houses were estimated in the survey area, out of that 5,090 were unaffected; 2,551 damaged and 1072 houses were completely destroyed. People ranked reconstruction of house as priority number one (see Table 9.1 and Appendices N and O).

Table 9.1: Damaged infrastructures

Infrastructures	Number of structures: Unaffected	Damaged	Completely destroyed	Priority ranking for rehabilitation
House	5090	2551	1072	1
Health clinic	2	0	0	5
School	8	5	5	3
Drinking water supply scheme	2	13	5	4
Wells	1250	589	260	2

No. of villages surveyed: 103

The two health clinic buildings and 8 school buildings were unaffected, while buildings of 5 schools were completely destroyed and other 5 school buildings were damaged.

A total of 20 drinking water supply scheme has been recorded, out of that 5 of them were completely destroyed, 13 damaged and only 2 were operative. Wells are another main drinking water source, according to the survey a total of 2,099 well has been recorded, out of that only 1,250 were in working condition, 589 damaged and 260 has been completely destroyed.

Interviews with the inhabitant of the survey area revealed that the reconstruction and rehabilitation of different types of structures constituted the immediate demand of the people. Demand have been prioritized as per needs of inhabitants. According to the survey, reconstruction of the damaged or destroyed houses has been ranked as priority number one of the inhabitant, construction of the wells marked priority number two, construction of school buildings as priority number 3, construction of drinking water supply scheme as priority number 4 and construction of health clinic has been ranked as priority number 5 of the villagers.

10. UN AGENCIES AND NGOS ACTIVITIES

A total of 20 UN agencies and NGOs have worked in the surveyed villages of Khogiani district. For their names and activities see Appendix P.

11. APPENDICES

APPENDIX A

SURVEY QUESTIONNAIRE

MADERA/DACAAR /GAA BASELINE DATA SURVEY FORM

Date: ______________ Province: ______________

Enumerator's code: ______________ District : ______________

Number of people in meeting: ______________ Main village: ______________

Number of active speakers: ______________ Sub village : ______________

I- POPULATION:

Time	Households* not native to the village	Returnee households in the village	Total number of households in the village	Households in			Total households
				Pakistan	Iran	Afghanistan	
Present							
Before the War							

* One household is defined as a group of people sharing cooking pot.

II- LAND TENURE:

Time	Irrigated land during one year (jerib)	Rainfed land during one year (jerib)	Households owning land (owners)	Households not owning land (Tenants)	Households owning & renting land (Owner cum Tenants)	Total households
Present						
Before the War						

III- LIVESTOCK:

Time	% of households Owning animals	Total number of animals						Total number of oxen
		Cattle	Goat	Sheep	Donkey	Horse	Other	
Present								
Before the War								

IV- IRRIGATION INFRASTRUCTURE:

a. Source of irrigation: **1.** ________________ **2.** ________________ **3.** ________________ **4.** ________________

b. Is the irrigation system fully operational at present ? Yes No

If No, how could you solve its problem ?

1. Construction of intake Yes No
2. Reconstruction of karez Yes No
3. Lining of water course Yes No
4. Maintenance of water course Yes No
5. Construction of other canal structures Yes No
6. Maintenance of karez Yes No
7. Other (Specify): ____________________

Between these problems, which one is the most important? ___________

V- OTHER INFRASTRUCTURES:

1. ROAD:

Is there any road leading to the village? Yes No

If Yes, what type of road? _________

A- Road usable by simple pick-up or car
B- Road usable by 4WD vehicles
C- Mule track

What is the condition of the road? _________

A- Good
B- Fairly Good
C- Bad

2. DRINKING WATER SUPPLY:

Time	Source of drinking water					No. of private wells		No. of public wells		Diesel water pump
	Stream	Canal	Karez	Spring	Pipe Water	Deep	Shallow	Deep	Shallow	
Present										
Before the War										

1. INTRODUCTION

1.1 Description of the Survey Area

A map of the approximate boundaries of the survey area shows a total of approximately 581 square kilometers. Khogiani district is bound to the north by Surkh Rud district (Nangarhar), to the east by Chaparhar and Pachir Agam districts (Nangarhar), to the west by Sherzad district (Nangarhar), and to the south by Northern flanks of the Speen Ghar (White Mountain), through which runs the Durand line cuts through. The land slopes is toward the city of Jalalabad to the Northeast and then directly to the North. Tour Ghar (Black Mountain) situated across the valley.

Khogiani district located in 34:15'00"N latitude and 70:11'00"E longitude. The elevation of district center from the sea level is 1,250 meters, and the area remains relatively cooler than Jalalabad city during the summer seasons. The slope of Spin Ghar are covered with forests and there are numerous mountain routes to Pakistan.[1]

The area is best known historically for the events that took place near the village of Gandumak: the massacre of the remaining survivors of the British retreat from Kabul in 1842, and the signing of a peace treaty (known as the treaty of Gundamak) between British and the Afghans in 1879.[2]

From 1979 until 1989, the control of Khogiani area by Afghan and Soviet armies was challenged by resistance forces. A decade of bombing, rocket attacks, and ground fighting caused massive refugee exodus. DCAR, May 1989, estimated that more than 82,000 refugees in Pakistan came from Khogiani area, or 25 percent of the total number of refugees from Nangarhar province. Based on UNIDATA 1991, total population was 91,554 of which 82,284 were refugee in Pakistan and 9,270 were reported to be inside.[3]

According to the Central Statistics Office (CSO), adjusted population of the area in 1979 was 74,000. DCAR estimated in May 1989 that more than 82,000 refugee in Pakistan were from Khogiani and another 3,000 to 4000 were thought to be living in Jalalabad City. An agency working in the area estimates, as of December 1989, that approximately 25,000 to 28,000 people were then lived in Khogiani. The main tribes (Khels or clans) in this area is Pushtun Khogiani with the following major sub Khels:

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[1] *ASA/SCA, Repatriation and Rehabilitation Survey, Part II Khogiani Area, P. 8.*

[2] *Adamec, Ludwig W. Historical and political Gazetteer of Afghanistan, Kabul and Southern Afghanistan, Vol. 6, 1985, PP. 174-5.*

[3] *UNIDATA, Nangarhar Province, PP. 77-82, April 1991.*

VI- HEALTH FACILITIES:

Is there any clinic in the village ? Yes No If **Yes**, ask the following questions from the clinic incharge.
If **No**, how far is the nearest clinic to the village ? _______ (km)

Time	Health Facility		No. of doctors		No. of MHW		No. of nurses		Fund. sor.		Building		Activity		Average patient/day	EPI introduced	
	No.	Type	M	F	M	F	M	F	S	Mat.	Yes	No	D/W	H/D		Yes	No
Present																	
Before the War																	

Type= **C1, C2, C3** MHW=Medical Health Worker M=Male F=Female
Fund. sor.=Funding source S=Salary Mat.=Material D/W=Day per Week H/D=Hour per Day

Major health problems:

1. ________________ **2.** ________________ **3.** ________________ **4.** ________________ **5.** ________________

Is there any pharmacy in the village ? Yes No If **Yes**, ask the following question :

Number of pharmacy: ______ Type of pharmacy: Private Public If **No**, how far is the nearest pharmacy to the village ? _______ (km)

VII- EDUCATION:

Time	No. of functioning boys schools			No. of students	No. of functioning girls school			No. of students	No. of teachers	
	Home	Public			Home	Public				
		No.	Type			No.	Type		Male	Female
Present										
Before the War										

Type = Primary / Secondary

VII- EDUCATION: (Cont...)

Time	Education material		Building		Funding source	
	Yes	No	Yes	No	Salary	Material
Present						
Before the War						

VIII- DAMAGED INFRASTRUCTURES:

Infrastructures	Number of structures			Priority ranking for rehabilitation 1= (most urgent) 5= (less urgent)
	Unaffected	Damaged	Completely destroyed	
Houses				
Health clinic				
School				
Drinking Water Supply scheme				
Wells				

IX- UN AGENCIES & NGO ACTIVITIES:

Are there any NGO working in this village at present or during the past five years? Yes No

If Yes, list their names and type of activities:

Name of UN/NGO	Field of activities
1. ____________	________________________________
2. ____________	________________________________
3. ____________	________________________________
4. ____________	________________________________
5. ____________	________________________________

APPENDICES B-P

SURVEY RESULTS AT VILLAGE LEVEL

Appendix B: List of villages, households, interviewees and active speakers in Khogiani district

S/N	Main village	Sub village	Number of: House-holds	People in meeting	Active speakers
1	Ador		120	22	3
2	Ahmad Khel (Wazir)		300	25	5
3	Araban		45	20	3
4	Arghach	Bar Arghach	130	25	4
5	Arghach	Kuz Arghach	120	20	4
6	Asman (Banda)		50	22	3
7	Awday		100	30	4
8	Baghicha		80	25	3
9	Bar Beyar	Adad Khel	250	23	3
10	Bar Beyar	Cendaly	200	37	3
11	Bar Beyar	Omar Khel	250	27	5
12	Butkhakay		50	20	3
13	Caparay		100	25	4
14	Chanargay		25	13	2
15	Chino Miagan		60	23	3
16	Darga		100	28	4
17	Darwazagay		22	12	2
18	Duawa		100	27	2
19	Fateh Kharkay		250	20	4
20	Godalay		40	18	3
21	Hakimabad		200	35	3
22	Hashim Khel		200	20	3
23	Ibrahim Khel (Loy Kalay)		400	30	6
24	Jangalkay		50	23	3
25	Jawara		80	28	4
26	Kalakhel	Bar Kalakhel	100	24	4
27	Khadar Khel		19	9	2
28	Kharmane		80	31	4
29	Khawran		70	30	3
30	Khogay		170	33	4
31	Khoza Khel		500	50	4
32	Khoza Khel	Kambo	400	25	6
33	Klakhel	Kuz Klakhel	60	20	3
34	Kuz Beyar	Babakur Khel	50	23	4
35	Kuz Beyar	Bacha Kalay	85	28	3
36	Kuz Beyar	Degan	100	20	4
37	Kuz Beyar	Drabgay	70	31	4
38	Kuz Beyar	Janbaz Khel	100	30	3
39	Kuz Beyar	Kabolyan	60	20	4
40	Kuz Beyar	Landay	150	30	5
41	Kuz Beyar	Shergar	50	25	3

Appendix B: List of villages, households, interviewees and active speakers in Khogiani district (Cont...)

S/N	Main village	Sub village	Number of: Households	Number of: People in meeting	Number of: Active speakers
42	Kuz Beyar	Sordag	38	22	3
43	Landay		90	29	4
44	Loghdara		100	32	3
45	Lokhay		250	20	5
46	Lokhay	Landay	80	20	5
47	Lokhay	Malek Asheq	40	20	4
48	Lokhay	Munda Chenar	110	20	3
49	Loy Kalay (Khadar Khel)		72	20	5
50	Mankay		70	20	4
51	Maydan Kanay		35	18	2
52	Memla		400	25	5
53	Myagan		300	30	5
54	Naw Kaza (Naw Bazar)		300	20	4
55	Nukur Khel		500	25	4
56	Pera Khel	Abdul Rahim Jan	27	8	2
57	Pera Khel	Abocopeer	31	12	3
58	Pera Khel	Akhond Zadgan	23	7	4
59	Pera Khel	Angora	45	5	2
60	Pera Khel	Bada Khel	40	10	3
61	Pera Khel	Bar Khalo Khel	30	7	2
62	Pera Khel	Ghundy Kalay	8	3	2
63	Pera Khel	Gulabi	17	8	4
64	Pera Khel	Husain Khel	30	10	4
65	Pera Khel	Jawara	20	4	2
66	Pera Khel	Kajir Kalay	30	6	5
67	Pera Khel	Khafyan	12	3	1
68	Pera Khel	Khalo Khel	70	8	3
69	Pera Khel	Lala Khel	25	8	2
70	Pera Khel	Mahmod Kalay	10	6	4
71	Pera Khel	Malek Jalat Kalay	20	8	4
72	Pera Khel	Mashray	37	10	3
73	Pera Khel	Mirzali	19	5	1
74	Pera Khel	Mourgai	100	6	3
75	Pera Khel	Pachayan	21	7	4
76	Pera Khel	Petlagan	8	3	1
77	Pera Khel	Rayan Kalay	25	4	3
78	Pera Khel	Shama Kalay	48	8	4
79	Pera Khel	Shinwaro Kalay	41	8	3
80	Pera Khel	Sina	23	6	3
81	Pera Khel	Tagan	14	5	4
82	Pera Khel	Tar Khel	26	7	6

Appendix B: List of villages, households, interviewees and active speakers in Khogiani district (Cont...)

S/N	Main village	Sub village	Number of: House-holds	People in meeting	Active speakers
83	Pera Khel	Zangalian	20	10	3
84	Qader Khan Bandah		30	21	3
85	Qayum Khel		50	22	3
86	Qilaghu		1000	20	4
87	Samocay		30	16	3
88	Samusi		50	21	2
89	Saqavah		200	36	3
90	Saway Zangal		13	8	3
91	Sekandarah		50	15	3
92	Sengani		120	25	5
93	Sengani	Bar Sengani	100	22	3
94	Shaqul Khel		60	20	4
95	Shegay		30	16	2
96	Shegay	Bar Kalay	20	11	2
97	Shorokhel		150	40	3
98	Sorway Tizha		5	5	3
99	Surdog	Abro Deri	80	23	4
100	Surmay		100	22	3
101	Toda China		30	14	1
102	Zor Bazar		120	20	5
103	Zor Hokumati		120	38	0

Appendix C: Population and refugee status in Khogiani district

Main village	Sub village	Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
		Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Ador		4	Less	100		120	10	More	15	Less	0		25
Ahmad Khel (Wazir)		10	Less	20		300	10		20		0		30
Araban		6	Less	25		45	5	More	6		0		11
Arghach	Bar Arghach	20	More	60		130	15	Less	30		0		45
Arghach	Kuz Arghach	15		100		120	15	More	60		0		75
Asman (Banda)		7	Less	30		50	10	Less	60		0		70
Awday		3	Less	50		100	0		50		0		50
Baghicha		5	Less	60		80	5	Less	60		0		65
Bar Beyar	Adad Khel	20		200		250	10	More	15	Less	0		25
Bar Beyar	Cendaly	8	Less	150		200	20	More	50	Less	0		70
Bar Beyar	Omar Khel	25	Less	100		250	30	Less	20	Less	2		52
Butkhakay		10	Less	5		50	2		3		0		5
Caparay		20	Less	40		100	0		60		0		60
Chanargay		3	Less	20		25	0		30		0		30
Chino Miagan		2	Less	30		60	0		4		0		4
Darga		0		60		100	10		50		0		60
Darwazagay		2	Less	20		22	2	Same	0		0		2
Duawa		0		20		100	0		3	Less	0		3
Fateh Kharkay		3	Less	110		250	9	More	25		0		34
Godalay		3		20		40	0		25		0		25
Hakimabad		10	Less	80		200	20		40		0		60
Hashim Khel		25	Less	120		200	10	Less	50		0		60
Ibrahim Khel (Loy Kalay)		40	Same	300		400	0		100		0		100
Jangalkay		3	Less	10		50	0		10	Less	0		10
Jawara		18	Less	40		80	5		10		0		15

Appendix C: Population and refugee status in Khogiani district (Cont...)

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Kalakhel	Bar Kalakhel	5		80		100	15	More	20	Less	5		40
Khadar Khel		1	Less	15		19	0		20		0		20
Kharmane		10	Less	40		80	0		15		0		15
Khawran		10	Less	40		70	3		10		0		13
Khogay		5		160		170	2	More	10	Less	0		12
Khoza Khel		150	Less	300		500	12		30	Less	1	Less	43
Khoza Khel	Kambo	4	More	250		400	10	More	15		0		25
Klakhel	Kuz Klakhel	5		40		60	3	More	5		0		8
Kuz Beyar	Babakur Khel	0		30		50	5		0		0		5
Kuz Beyar	Bacha Kalay	8	Less	25		85	7	Less	5		0		12
Kuz Beyar	Degan	6	Less	20		100	8	More	5		0		13
Kuz Beyar	Drabgay	2	Less	60		70	5		10		0		15
Kuz Beyar	Janbaz Khel	10	Less	80		100	8	Less	6		1		15
Kuz Beyar	Kabolyan	2	More	40		60	4		10		0	More	14
Kuz Beyar	Landay	2	More	10		150	15	More	30	Less	0		45
Kuz Beyar	Shergar	2		45		50	3	More	10		0		13
Kuz Beyar	Sordag	0		35		38	5	More	10		0		15
Landav		4	Less	50		90	2	More	3		0		5
Loghdara		10	Less	50		100	6	Less	0		0		6
Lokhay		6		200		250	8	More	10	Less	1	Less	19
Lokhay	Landay	2	More	40		80	3	More	2		0		5
Lokhay	Malek Asheq	5	Less	20		40	15	More	10	Less	2		27
Lokhay	Munda Chenar	4	Same	50		110	12	Less	10		0		22
Loy Kalay (Khadar Khel)		2	Less	50		72	5		60		0		65

Appendix C: Population and refugee status in Khogiani district (Cont...)

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Mankay		2		25		70	0		60		0		60
Maydan Kanay		1		30		35	5	More	10	Less	0		15
Memla		20	Less	250		400	25		50		0		75
Myagan		3	Less	50		300	5	More	50	Less	0		55
Naw Kaza (Naw Bazar)		50		200		300	40	Less	100		0		140
Nukur Khel		50	Less	400		500	30		150		0		180
Pera Khel	Abdul Rahim Jan	0		17		27	0		6		0		6
Pera Khel	Abocopeer	2		20		31	0		8		0		8
Pera Khel	Akhond Zadgan	1		20		23	1		10		0		11
Pera Khel	Angora	0		10		45	0		0		0		0
Pera Khel	Bada Khel	0		3		40	0		7		0		7
Pera Khel	Bar Khalo Khel	10	Less	20		30	0		100		0		100
Pera Khel	Ghundy Kalay	1	More	8		8	0		5		0		5
Pera Khel	Gulabi	0		17		17	0		30		0		30
Pera Khel	Husain Khel	0		10		30	0		30		0		30
Pera Khel	Jawara	0		10		20	1		6		0		7
Pera Khel	Kajir Kalay	2		28		30	10	Less	18		0		28
Pera Khel	Khafyan	2		3		12	0		3		0		3
Pera Khel	Khalo Khel	1	Same	62		70	0		12		0		12
Pera Khel	Lala Khel	0		18		25	0		12		0		12
Pera Khel	Mahmod Kalay	1		3		10	0		6		0		6
Pera Khel	Malek Jalat Kalay	0		20		20	1		9		0		10
Pera Khel	Mashray	0		22		37	0		13		0		13
Pera Khel	Mirzali	0		10		19	0		12		0		12

Kharboni, Wazir, Sherzad, Dargi Ghafar Khel, Ismail Khel, Mullah Khel, Koti Khel and Sultan Khel.[4]

The main crops in Khogiani district are wheat, maize, rice, vegetables (onion, tomatoes, potatoes), fruit (pomegranates, apples, pears, plums, etc.) and opium poppy. Farming is supplemented by harvesting timber. The typical landholding size is between 6 to 15 Jeribs of land.[5]

Based on Nangarhar Province Report, March 1992, prepared by ACBAR, the irrigation system is mainly stream based and the land is the richest in the province because plentiful water is available from the two mountains of Speen Ghar (White mountain) and Tour Ghar (Black mountain). The creeks of Speen Ghar irrigate the southeastern portion on the district and those of Tour Ghar, the northwest. In 1990 a total of 17,000 jeribs of irrigated land and 3,000 jeribs of rainfed land was under cultivation, and 9,315 farmers were working in agricultural and livestock production.

Four irrigation canal of Kaja (2 kms), Zawa (2 kms), Ibrahim Khel (2 kms), and Khogiani Wialah (4.5 kms) are mainly the agricultural water source for irrigation in Khogiani district.

1.2 Objectives

This survey constitutes the first stage in a greater overall scheme. By integrating action in the field this scheme aims to reinstall the IDPs and refugee families and identify the main development problems of the area.

The efforts in this survey have mainly been targeted to villages with regard to population and repatriation, land tenure and agricultural land, livestock, market accessibility, health and education facilities, access to drinking and irrigation water, and situation of damaged infrastructures including public buildings and private houses.

The specific objectives aimed to obtain up-to date and accurate information on the following subjects and their rehabilitation needs:

- To determine demographic information on current number of households in the villages and potential returnees.
- To provide information about the acreage of arable land, number of household owning and renting land, status of irrigation water sources and ways of their improvement.

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[4] *UNHCR Background Report, Nangarhar Province, 1989, P. 29.*

[5] *UNHCR Background Report, Nangarhar Province, Sep. 1989, PP. 29-30.*

Appendix C: Population and refugee status in Khogiani district (Cont...)

		Not native		Returnees		Total	Displaced		Pakistan		Iran		Total
Main village	Sub village	Present	Before War	Present	Before War	Present	Present	Before War	Present	Before War	Present	Before War	Present
Pera Khel	Mourgai	6		20		100	10		50		0		60
Pera Khel	Pachayan	0		21		21	1		10		0		11
Pera Khel	Petlagan	4		0		8	3		1		0		4
Pera Khel	Rayan Kalay	1		20		25	0		20		0		20
Pera Khel	Shama Kalay	2	More	34		48	3	More	20		0		23
Pera Khel	Shinwaro Kalay	0		36		41	0		2		0		2
Pera Khel	Sina	0		3		23	0		5		0		5
Pera Khel	Tagan	0		14		14	2		6		0		8
Pera Khel	Tar Khel	3	Less	23		26	3		5		0		8
Pera Khel	Zangalian	0		19		20	0		15		0		15
Qader Khan Bandah		28	Same	29		30	0		2		0		2
Qayum Khel		6	Less	40		50	15	More	10		0		25
Qilaghu		20	Less	450		1000	40	Less	500		0		540
Samocay		3	Less	6		30	0		10		0		10
Samusi		0		5		50	10	More	0		0		10
Saqavah		20	Less	150		200	0		10		0		10
Saway Zangal		3	Less	10		13	0		0		0		0
Sekandarah		2	Less	10		50	0		10		0		10
Sengani		2	Less	30		120	3	More	30		0		33
Sengani	Bar Sengani	0		40		100	2	More	70	Less	0		72
Shaqul Khel		20		25		60	3	More	8		0		11
Shegay		2	Same	20		30	2	More	10		0		12
Shegay	Bar Kalay	5	Less	15		20	0		30		0		30
Shorokhel		0		100		150	20		30		0		50

Appendix C: Population and refugee status in Khogiani district (Cont...)

Main village	Sub village	Not native Present	Not native Before War	Returnees Present	Returnees Before War	Total Present	Displaced Present	Displaced Before War	Pakistan Present	Pakistan Before War	Iran Present	Iran Before War	Total Present
Sorway Tizha		0		5		5	5		20		0		25
Surdog	Abro Deri	2		70		80	20	Less	5	Less	0		25
Surmay		3	Less	80		100	15	Less	10	Less	0		25
Toda China		1	More	28		30	2	More	10		0		12
Zor Bazar		10	Less	7		120	10	Less	16		0		26
Zor Hokumati		20	Less	10		120	4		6		0		10

No. of villages surveyed: 103

Appendix D: Land tenure in Khogiani district

		Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Ador		900	More	150	Less	40	Less	10	Same	50	More	100
Ahmad Khel (Wazir)		2000	Same	0		200	Less	10	Less	50		260
Araban		150	Same	0		15	Same	10	Less	5	Less	30
Arghach	Bar Arghach	850	Less	0		70		30	Less	20	Less	120
Arghach	Kuz Arghach	850	Same	0		80	Same	10	Same	10		100
Asman (Banda)		200	Same	0		30	Same	9	Less	10	Same	49
Awday		1000	Same	0		60	Same	3	More	30	Same	93
Baghicha		1500	Same	0		45	Same	5	Same	30	Less	80
Bar Beyar	Adad Khel	300	Same	0		200	Same	0		20	Same	220
Bar Beyar	Cendaly	800	Same	200	Same	30	More	120	Less	40	Same	190
Bar Beyar	Omar Khel	220	Same	0		15	More	25	Less	50	More	90
Butkhakay		400	Same	150	Same	30	Same	10	Less	5	Same	45
Caparay		50	Same	0		15	More	30	Less	55	Less	100
Chanargay		350	More	0		10	Same	3	Same	5	Less	18
Chino Miagan		70	Same	15	Less	35	Same	10	Less	10	Same	55
Darga		400	Same	20	More	65	Same	20	Same	10	Less	95
Darwazagay		55		0		18		2		2		22
Duawa		30	Same	0		90	Less	0		0		90
Fateh Kharkay		400	Less	300	Less	110	Less	10	More	43	Same	163
Godalay		150	More	0		20	Less	3	Less	10	Less	33
Hakimabad		1500	Less	0		140	Less	10	Less	20	Same	170
Hashim Khel		1500	Same	0		120	Same	25	Less	50	Less	195
Ibrahim Khel (Loy Kalay)		1500	Less	0		300	More	40	Less	30	Same	370
Jangalkay		10	Same	0		10	Less	15	Same	20	More	45
Jawara		300	Same	0		45	Same	10	Less	20	Less	75

Appendix D: Land tenure in Khogiani district (Cont...)

		Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Kalakhel	Bar Kalakhel	700	Same	0		50	More	30		0		80
Khadar Khel		200	Same	0		10	Same	0		8	Less	18
Kharmane		450	Same	0		55	Less	10	Less	15	Less	80
Khawran		1000	Same	0		30	More	10	Less	20	Less	60
Khogay		250	Same	100	Same	120	Same	8	Less	30	Less	158
Khoza Khel		1200	Less	700	More	300	More	50	Less	150	More	500
Khoza Khel	Kambo	800	Same	600	Less	200	More	10	Less	150	Same	360
Klakhel	Kuz Klakhel	250	Same	0		20	Same	10	Less	30	Less	60
Kuz Beyar	Babakur Khel	250	Less	0		20	Same	8	More	15	Same	43
Kuz Beyar	Bacha Kalay	100	More	35	Less	35	Less	22	Less	15	More	72
Kuz Beyar	Degan	270	Less	350	Same	20	Same	4	Same	60	Less	84
Kuz Beyar	Drabgay	200	Less	200	Less	13	Same	3	Less	35	Less	51
Kuz Beyar	Janbaz Khel	200	Same	0	More	55	Same	9	Same	14	Less	78
Kuz Beyar	Kabolyan	100	Less	150	More	15	More	10	Less	20	Less	45
Kuz Beyar	Landay	600	More	400	Less	75	More	25	Less	15	Less	115
Kuz Beyar	Shergar	300	Same	0		28	Same	5	Less	5	Less	38
Kuz Beyar	Sordag	700	Same	0		35	Same	2	Same	0	More	37
Landay		190	Same	0		60	Same	9	More	15	More	84
Loghdara		160	Same	0		50	Less	10	Less	10	Same	70
Lokhay		190	Same	0		100	Same	20	Less	50	Less	170
Lokhay	Landay	400	More	0		40	Same	2	More	35	Less	77
Lokhay	Malek Asheq	85	More	55	Less	12	Less	5	More	20	Less	37
Lokhay	Munda Chenar	100	Less	0		60	Same	10	Less	15	Less	85
Loy Kalay (Khadar Khel)		200	Same	0		50	Less	10	Less	5	More	65

Appendix D: Land tenure in Khogiani district (Cont...)

Main village	Sub village	Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are						Total households
						Only owner		Only tenant		Owner+tenant		
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Mankay		350	Same	0		20	Same	2	Same	7	Less	29
Maydan Kanay		300	Same	0		32	Less	0		3	Same	35
Memla		1000	Less	0		250	Less	20	Less	80	Less	350
Myagan		130	Same	0		190	Less	30	More	40	Same	260
Naw Kaza (Naw Bazar)		60	Same	0		200	Same	50	Less	0		250
Nukur Khel		4000	Same	20	Less	200	Same	50	Less	60	Same	310
Pera Khel	Abdul Rahim Jan	140	Same	0		20	Less	0		2	Less	22
Pera Khel	Abocopeer	200	More	0		15	More	0		8	Less	23
Pera Khel	Akhond Zadgan	120	Same	0		17	Same	0		5		22
Pera Khel	Angora	100	Same	0		20	More	0		20	Less	40
Pera Khel	Bada Khel	100	Same	0		20	Same	0		4	Less	24
Pera Khel	Bar Khalo Khel	130	Same	0		12	More	0		10	Less	22
Pera Khel	Ghundy Kalay	24	Same	0		2	More	1		5		8
Pera Khel	Gulabi	20	Same	0		6	More	0		11	Less	17
Pera Khel	Husain Khel	105	Same	0		10	More	0		15	Less	25
Pera Khel	Jawara	40	Same	0		15	Less	0		2		17
Pera Khel	Kajir Kalay	80	Same	0		12	More	0		11	Less	23
Pera Khel	Khafyan	36	Same	0		4	More	2		6		12
Pera Khel	Khalo Khel	200	Same	0		40	More	1	Same	9	Less	50
Pera Khel	Lala Khel	20	Same	0		15	More	0		4	Less	19
Pera Khel	Mahmod Kalay	50	Same	0		0	More	0		8		8
Pera Khel	Malek Jalat Kalay	60	Same	0		15	More	0		3	Less	18
Pera Khel	Mashray	100	Same	0		25	More	0		5	Less	30
Pera Khel	Mirzali	10	Same	0		14	More	0		3		17

Appendix D: Land tenure in Khogiani district (Cont...)

						Number of households who are						
		Irrigated land (jerib)		Rainfed land (jerib)		Only owner		Only tenant		Owner+tenant		Total households
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Pera Khel	Mourgai	200	Same	0		60	More	0		10	Less	70
Pera Khel	Pachayan	40	Same	0		14	More	0		4		18
Pera Khel	Petlagan	60	Same	0		4	Same	4		0		8
Pera Khel	Rayan Kalay	300	Same	0		4	More	0		15	Less	19
Pera Khel	Shama Kalay	115	Same	0		35	Less	0		9		44
Pera Khel	Shinwaro Kalay	47	Same	0		25	More	0		4	Less	29
Pera Khel	Sina	40	Same	0		6	More	0		10	Less	16
Pera Khel	Tagan	50	Same	0		10	More	0		2	Same	12
Pera Khel	Tar Khel	49	Same	0	More	12	More	6	Less	5		23
Pera Khel	Zangalian	35	Same	0		6	More	0		8	Less	14
Qader Khan Bandah		1000	Same	0		0		26	Less	2	More	28
Qayum Khel		250	Same	0		28	More	8	Less	10	Less	46
Qilaghu		2500	Same	700	Less	600	Same	150	Less	150	Same	900
Samocay		80	Same	0		15	Same	10	Less	5	Same	30
Samusi		20	Same	0		20	Same	0		0		20
Saqavah		400	Same	0		95	Same	70	Less	10	Same	175
Saway Zangal		100	Same	0		8	Less	3	Less	2	Same	13
Sekandarah		40	Same	0		25	Less	5	Same	5	Same	35
Sengani		80	More	0		40	Less	15	Same	40	Less	95
Sengani	Bar Sengani	60	Same	0		80	Same	5	Less	5	Same	90
Shaqul Khel		300	Less	0		10	Same	20	Less	20	Same	50
Shegay		80	Same	0		19	Same	3	Same	5	Less	27
Shegay	Bar Kalay	30	Less	0		11	Same	4	Same	3	Less	18
Shorokhel		80	Less	0		35	Less	15	More	20	Less	70

Appendix D: Land tenure in Khogiani district (Cont...)

Main village	Sub village	Irrigated land (jerib)		Rainfed land (jerib)		Number of households who are: Only owner		Only tenant		Owner+tenant		Total households
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present
Sorway Tizha		100	Same	0		5	Same	0		0		5
Surdog	Abro Deri	250	Less	300	More	20	More	22	Less	33	Same	75
Surmay		250	More	85	Less	15	More	25	Less	35	More	75
Toda China		50	Same	0		23	Less	2		2		27
Zor Bazar		200	Same	0		80	More	10	Less	15	More	105
Zor Hokumati		800	Same	0		60	Less	26	Less	30	Less	116

No. of villages surveyed: 103

Appendix E: Livestock ownership in Khogiani district

Main village	Sub village	% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Ador		100		230	More	150	Less	300	More	85	More	0		0		70	Less
Ahmad Khel (Wazir)		90		250	Same	350	More	400	Same	240	Same	5	More	0		200	Same
Araban		90	More	70	Less	30	More	50	More	15	Less	0		0		12	More
Arghach	Bar Arghach	95	More	500	Less	200	Less	600	Less	80	Less	0	More	0		80	Less
Arghach	Kuz Arghach	100	Same	800	More	200	Same	2000	Same	80	Less	0		0		100	Less
Asman (Banda)		100	Same	45	Same	350	Same	250	Same	45	Same	0		0		40	Same
Awday		90	More	80	Less	150	Same	250	Same	80	More	0		0		80	
Baghicha		95	Same	135	Same	200	Same	150	Same	70	Same	0		0		65	Same
Bar Beyar	Adad Khel	100	Same	600	More	100	More	1000	More	200	Same	0		0		120	More
Bar Beyar	Cendaly	90	Same	150	Less	300	Less	600	Less	150	Less	0		0		70	Less
Bar Beyar	Omar Khel	85		180	More	5	More	54	More	6	More	1	Less	0		100	Less
Butkhakay		70	Less	80	Same	100	Less	110	Less	60	Same	0		0		13	More
Caparay		95	Less	50	Less	100	Less	50	Same	50		0		10	Less	20	More
Chanargay		100	Same	25	More	200	Less	150	More	20	Same	0		0		20	Same
Chino Miagan		95	Same	80	Less	100	Same	80	Same	50	Less	0		0		20	Same
Darga		90	Less	300	More	50	Same	250	More	60	Same	0		0		80	More
Darwazagay		98	Same	35	Same	50	Same	40	Same	20	Same	0		0		20	Same
Duawa		100	Same	500	Same	1000	Less	1500	Less	90	Same	0		30		10	Same
Fateh Kharkay		90	Same	250	Same	400	Same	500	More	170	Same	0		5	More	70	Same
Godalay		95	Same	60	More	70	More	40	More	30	Same	0		0		40	Same
Hakimabad		95	Same	300	Same	130	Same	150	More	180	More	0		0		120	Same
Hashim Khel		90	Same	180	Less	100	Same	50	Less	200	Less	0		0		160	Less
Ibrahim Khel (Loy Kalay)		100	Same	400	More	500	More	360	Less	200	Same	0		0		200	Less
Jangalkay		100	Same	200	More	20	Less	400	More	30	Same	0		5	More	6	Same
Jawara		95	Same	100	Same	400	Same	120	More	80	Same	0		0		40	More

Appendix E: Livestock ownership in Khogiani district (Cont...)

Main village	Sub village	% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Kalakhel	Bar Kalakhel	100	Same	500	More	50	More	300	More	50	Same	0		0		80	Same
Khadar Khel		40	More	50	More	15	More	40	More	10	Same	0		0		10	Same
Kharmane		96	Same	120	Same	300	Same	250	Same	70	More	0		0		80	More
Khawran		95	Same	75	Same	150	Same	50	More	60	Same	0		0		50	Same
Khogay		80	Same	300	Less	170	Less	350	More	40	Less	0		0		50	More
Khoza Khel		96	Same	1200	More	2000	Less	4000	Same	200	Same	5	More	20	Less	160	More
Khoza Khel	Kambo	90	Same	500	Less	600	Less	50	Same	300	Same	0		20	Less	70	Less
Klakhel	Kuz Klakhel	100	Same	120	More	30	More	200	More	40	Less	0		0		30	More
Kuz Beyar	Babakur Khel	80	Same	80	Less	15		60	Same	40	Less	5	More	0		40	Same
Kuz Beyar	Bacha Kalay	98	More	220	More	5	More	28	More	20	Same	0	More	0		36	More
Kuz Beyar	Degan	90	Same	150	Less	70	Same	100	Less	70	Less	0		0		12	More
Kuz Beyar	Drabgay	95	Same	110	More	20	More	60	Less	10	More	0		0		40	More
Kuz Beyar	Janbaz Khel	100	Same	180	More	40	More	80	More	50	Less	0		0		50	More
Kuz Beyar	Kabolyan	90	Less	150	More	45	Less	80	More	20	Less	0		0		40	Same
Kuz Beyar	Landay	90	Same	200	More	15	Less	45	More	25	Same	0		0		44	Same
Kuz Beyar	Shergar	100	Same	80	More	40	More	200	More	45	Same	0		0		40	More
Kuz Beyar	Sordag	100	Same	55	More	40	More	100	More	20	Same	0		0		24	More
Landay		90	Same	130	Same	150	More	100	More	60	Less	0		0		20	Same
Loghdara		98	Same	140	Same	200	Same	150	Same	85	Same	0		0		80	Same
Lokhay		100	Same	200	More	25	More	50	More	50	More	0		0		16	More
Lokhay	Landay	92	Same	200	More	10	More	20	More	40	Less	0		0		30	More
Lokhay	Malek Asheq	100	Same	180	More	5	More	15	More	14	Less	2	More	0		30	Same
Lokhay	Munda Chenar	100	Same	200	Less	150	Less	250	Less	60	Less	0		0		60	Less
Loy Kalay (Khadar Khel)		90	Same	50	Same	300	Same	240	Same	45	Same	0		0		40	Same

Appendix E: Livestock ownership in Khogiani district (Cont...)

		% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Mankay		95	More	100	More	60	Same	80	More	60	Same	0		0		40	Same
Maydan Kanay		90	Same	120	More	15	More	200	More	30	Less	0		0		60	Same
Memla		98	Same	350	Same	500	Same	300	Same	350	Same	0		0		300	
Myagan		90	Less	400	Less	200	Same	1500	More	350	Same	0		20	More	25	Same
Naw Kaza (Naw Bazar)		70	Same	200	Less	20	Same	100	Less	70	Less	0		0		10	Same
Nukur Khel		95	Same	500	Same	1000	Same	1500	Same	100	More	10	Less	0		300	Same
Pera Khel	Abdul Rahim Jan	100	Same	100	Less	250	More	260	More	15	Less	0		0		20	More
Pera Khel	Abocopeer	94	More	40	More	10	More	150	More	15	More	0		0		14	More
Pera Khel	Akhond Zadgan	83	More	100	More	200	More	50	Same	7	More	0	More	0		14	Same
Pera Khel	Angora	100	Same	120	More	200	More	300	More	45	Less	0		45	Less	40	Less
Pera Khel	Bada Khel	100	Same	80	Less	140	More	40	More	40	Less	6	Less	8	Less	20	Less
Pera Khel	Bar Khalo Khel	100	Same	80	More	150	More	88	More	30	More	0		0		10	More
Pera Khel	Ghundy Kalay	100	Same	9	More	2	More	2	More	6	More	0		0		5	More
Pera Khel	Gulabi	65	More	24	More	4	More	9	More	4	More	0		0		6	More
Pera Khel	Husain Khel	100	Same	80	More	80	More	30	More	25	More	0		0		16	More
Pera Khel	Jawara	100	Same	60	Less	40	More	20	More	12	More	0		0		4	More
Pera Khel	Kajir Kalay	70	More	20	More	30	More	40	More	7	More	1	More	0		20	More
Pera Khel	Khafyan	100	Same	15	More	30	Same	15		8	Same	1	More	0		12	More
Pera Khel	Khalo Khel	98	More	140	More	150	More	100	More	25	More	0		0		20	More
Pera Khel	Lala Khel	100	Same	75	Less	90	More	60	More	18	Less	0		6	More	4	Same
Pera Khel	Mahmod Kalay	88	More	13	More	3	More	5	More	2	More	0		1	More	8	More
Pera Khel	Malek Jalat Kalay	90	More	40	Less	60	Less	40	Less	5	Same	0		0		4	More
Pera Khel	Mashray	100	Same	25	Same	32	More	40	More	4	More	0		0		26	Less
Pera Khel	Mirzali	100	Same	50	Same	70	More	25	More	19	Less	0		4		2	Same

- To asses the number of livestock in the area.
- To provide information on the number of damaged infrastructure and housing condition, access roads, transportation and drinking water sources in the survey area.
- To obtain information on major aspects of health facilities, number of health center and number of health workers, and funding sources.
- To provide information about education institution, number of schools, number of students and teachers.

1.3 Survey Method

A survey questionnaire covering questions related to relevant aspects of village situation was prepared (see Appendix A). All questions were discussed with the enumerators during training.

Four teams of enumerators, two supervisors, one field coordinator, and one survey consultant with adequate surveying experience took part in training and conducting of the field survey. All 4 teams worked simultaneously in the targeted district. After all targeted villages in the district were surveyed the team moved to another district. Each survey team, consisting of one enumerator and one local guide conducted the survey at the village level, and each supervisor was responsible for supervising the field work of two survey teams.

Each survey team used one survey form per village. Almost all villages in the targeted districts were covered. Each village was counted as a survey site. In order to obtain more accurate information, a village with many houses was divided into two or more sub-villages, while a village having few houses was added with another village. For example, Pera Khel, an area in Khogiani district was divided into 28 sub villages which had some logic relation and similarity to each other and a total of 28 questionnaires were filled out for that area.

From each village a group of 3 to 50 people (included village elders, tribal elders, landowners, and other important and knowledgeable individuals) was gathered for group interview (see Appendix B). At least two interviewees were village elders. The number of people in group interview depended upon the population of the villages. The interviewed people were the representatives of different walks of life in the area.

After conducting interviews, the completed forms were checked, cross-checked and edited for possible correction. Each enumerator carried a notebook to record some important information which is not covered in the questionnaire.

Appendix E: Livestock ownership in Khogiani district (Cont...)

Main village	Sub village	% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Pera Khel	Mourgai	90	More	140	More	500	Less	800	Less	60	More	0		40	Less	60	More
Pera Khel	Pachayan	85	Same	23	More	6	More	8	More	4	More	0		0		6	More
Pera Khel	Petlagan	100	Same	30	Less	20	Less	15	Less	2	Same	0		0		6	More
Pera Khel	Rayan Kalay	100	Same	90	Same	30	More	10	More	10	More	0		0		22	Same
Pera Khel	Shama Kalay	98	More	240	More	40	More	20	Same	25	More	1	More	1	More	20	More
Pera Khel	Shinwaro Kalay	100	Same	30	Less	20	More	15	More	30	Less	0		0		14	Same
Pera Khel	Sina	100	Same	50	Less	0		16	Same	6	More	0		0		12	Same
Pera Khel	Tagan	86	More	28	More	3	More	5	More	5	Same	0		0		12	Same
Pera Khel	Tar Khel	89	More	30	More	10	More	16	More	1		0		0		9	More
Pera Khel	Zangalian	100	Same	30	Same	30	More	20	More	5	Less	0		0		4	Same
Qader Khan Bandah		95	Same	40	Same	80	Same	70	Same	35	Same	0		0		20	Same
Qayum Khel		95	Same	110	More	200	Less	150	Less	40	More	0		0		15	More
Qilaghu		85	Same	900	Less	1500	Same	1800	More	500	More	0		0		200	More
Samocay		96	Same	25	Same	30	Same	40	Same	25		0		0		16	More
Samusi		95	Same	50	More	150	More	500	More	20	Same	0		15	Less	8	Same
Saqavah		100	Same	300	Less	80	Less	400	Less	150	Less	0		0		80	Less
Saway Zangal		96	Same	15	Same	40	Same	35	Same	10	Same	0		0		10	Same
Sekandarah		100	Same	90	Same	400	Less	200	Same	60	Less	0		20	Less	14	Same
Sengani		90	Same	150	Same	200	More	150	Same	150	Less	0		10	More	30	More
Sengani	Bar Sengani	95	Same	200	Less	400	Less	600	Less	90	Same	0		15		20	Same
Shaqul Khel		92	Same	45	More	60	More	25	Same	5	More	0		0		30	More
Shegay		85	Less	40	Less	10	Less	15	More	4	More	0		0		10	Same
Shegay	Bar Kalay	85	Less	50	Less	20	Less	15	Less	20	Same	0		0		20	Same
Shorokhel		90	Same	160	More	200	Less	250	Less	80	Less	0		0		20	Less

Appendix E: Livestock ownership in Khogiani district (Cont...)

		% of households owning animals		Total Number of animals: Cattle		Goat		Sheep		Donkey		Horse		Other		Tatal Number of oxen	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Sorway Tizha		90	More	5	More	15	More	10	More	5	More	0		0		10	More
Surdog	Abro Deri	95	Same	250	More	55	Less	1300	Same	73	More	3	Less	25	More	50	Same
Surmay		100	Same	250	More	80	More	300	Less	18	Same	2	More	0		40	More
Toda China		85	Same	20	More	15	More	30	Same	10	Same	0		0		18	More
Zor Bazar		95	Same	80	More	120	More	100	More	90	Same	0		0		40	More
Zor Hokumati		95		120	Same	30	Less	100	Less	80	Same	2	Less	0		80	Same

No. of villages surveyed: 103

Appendix F: Sources of irrigation and condition of irrigation system in Khogiani district

Main village	Sub village	Source of irrigation				Fully operational	
		A	B	C	D	Yes	No
Ador		Karez	Spring	Stream			N
Ahmad Khel (Wazir)		Stream					N
Araban		Stream	Spring				N
Arghach	Bar Arghach	Karez	Spring				N
Arghach	Kuz Arghach	Spring	Karez				N
Asman (Banda)		Stream	Spring				N
Awday		Karez	Spring				N
Baghicha		Stream	Spring	Karez			N
Bar Beyar	Adad Khel	Spring	Stream				N
Bar Beyar	Cendaly	Spring	Stream				N
Bar Beyar	Omar Khel	Stream	Spring				N
Butkhakay		Stream					N
Caparay		Stream	Spring				N
Chanargay		Spring	Karez				N
Chino Miagan		Stream	Spring				N
Darga		Karez	Spring				N
Darwazagay		Stream	Spring	Karez			N
Duawa		Stream					N
Fateh Kharkay		Karez	Spring				N
Godalay		Spring	Karez				N
Hakimabad		Stream	Spring				N
Hashim Khel		Spring	Stream	Karez			N
Ibrahim Khel (Loy Kalay)		Stream	Spring	Karez			N
Jangalkay		Stream					N
Jawara		Stream	Karez				N
Kalakhel	Bar Kalakhel	Stream					N
Khadar Khel		Stream					N
Kharmane		Stream	Spring				N
Khawran		Spring	Karez				N
Khogay		Spring	Karez				N
Khoza Khel		Stream	Spring				N
Khoza Khel	Kambo	Stream					N
Klakhel	Kuz Klakhel	Stream					N
Kuz Beyar	Babakur Khel	Stream					N
Kuz Beyar	Bacha Kalay	Stream	Karez				N
Kuz Beyar	Degan	Stream					N
Kuz Beyar	Drabgay	Stream					N
Kuz Beyar	Janbaz Khel	Stream					N
Kuz Beyar	Kabolyan	Stream					N
Kuz Beyar	Landay	Stream					N

Appendix F: Sources of irrigation and condition of irrigation system in Khogiani district (Cont...)

Main village	Sub village	Source of irrigation A	B	C	D	Fully operational Yes	No
Kuz Beyar	Shergar	Stream					N
Kuz Beyar	Sordag	Karez	Stream				N
Landay		Stream					N
Loghdara		Karez	Spring				N
Lokhay		Spring	Stream				N
Lokhay	Landay	Stream	Karez				N
Lokhay	Malek Asheq	Karez	Stream				N
Lokhay	Munda Chenar	Stream					N
Loy Kalay (Khadar Khel)		Stream	Spring				N
Mankay		Karez	Spring				N
Maydan Kanay		Stream	Spring				N
Memla		Karez	Spring	Stream			N
Myagan		Stream					N
Naw Kaza (Naw Bazar)		Stream	Spring				N
Nukur Khel		Stream					N
Pera Khel	Abdul Rahim Jan	Stream					N
Pera Khel	Abocopeer	Stream					N
Pera Khel	Akhond Zadgan	Stream					N
Pera Khel	Angora	Stream					N
Pera Khel	Bada Khel	Stream					N
Pera Khel	Bar Khalo Khel	Stream					N
Pera Khel	Ghundy Kalay	Stream					N
Pera Khel	Gulabi	Stream					N
Pera Khel	Husain Khel	Stream					N
Pera Khel	Jawara	Stream					N
Pera Khel	Kajir Kalay	Stream					N
Pera Khel	Khafyan	Stream					N
Pera Khel	Khalo Khel	Stream					N
Pera Khel	Lala Khel	Stream					N
Pera Khel	Mahmod Kalay	Stream					N
Pera Khel	Malek Jalat Kalay	Stream					N
Pera Khel	Mashray	Stream					N
Pera Khel	Mirzali	Stream					N
Pera Khel	Mourgai	Stream					N
Pera Khel	Pachayan	Stream					N
Pera Khel	Petlagan	Stream					N
Pera Khel	Rayan Kalay	Stream					N
Pera Khel	Shama Kalay	Stream					N
Pera Khel	Shinwaro Kalay	Stream					N

Appendix F: Sources of irrigation and condition of irrigation system in Khogiani district (Cont...)

Main village	Sub village	Source of irrigation A	B	C	D	Fully operational Yes	No
Pera Khel	Sina	Stream					N
Pera Khel	Tagan	Stream					N
Pera Khel	Tar Khel	Stream					N
Pera Khel	Zangalian	Stream					N
Qader Khan Bandah		Stream					N
Qayum Khel		Stream	Spring				N
Qilaghu		Stream	Karez	Spring			N
Samocay		Stream					N
Samusi		Stream					N
Saqavah		Stream	Spring				N
Saway Zangal		Stream	Karez	Spring			N
Sekandarah		Stream	Spring				N
Sengani		Stream					N
Sengani	Bar Sengani	Stream					N
Shaqul Khel		Stream					N
Shegay		Stream					N
Shegay	Bar Kalay	Stream					N
Shorokhel		Stream	Spring				N
Sorway Tizha		Spring	Stream				N
Surdog	Abro Deri	Stream	Spring	Karez			N
Surmay		Stream	Spring				N
Toda China		Karez					N
Zor Bazar		Stream	Karez				N
Zor Hokumati		Stream	Karez				N

No. of villages surveyed: 103

Appendix G: Priority ranking for rehabilitation of the irrigation system in Khogiani district

Main village	Sub village	A	B	C	D	E	F	G	The most important problem
		Problems to be solved							
Ador		√	√				√		A
Ahmad Khel (Wazir)		√							A
Araban		√			√			√	G
Arghach	Bar Arghach		√				√	√	B
Arghach	Kuz Arghach		√				√		B
Asman (Banda)		√							A
Awday			√			√			F
Baghicha				√			√		F
Bar Beyar	Adad Khel	√				√			A
Bar Beyar	Cendaly				√				D
Bar Beyar	Omar Khel	√			√				A
Butkhakay		√				√			E
Caparay		√				√			A
Chanargay			√				√		B
Chino Miagan		√				√			E
Darga			√		√			√	B
Darwazagay		√					√		F
Duawa		√			√				A
Fateh Kharkay			√				√		B
Godalay			√				√	√	B
Hakimabad		√				√			A
Hashim Khel		√		√				√	G
Ibrahim Khel (Loy Kalay)			√					√	B
Jangalkay		√			√				D
Jawara		√	√		√				B
Kalakhel	Bar Kalakhel	√							A
Khadar Khel		√			√				A
Kharmane		√		√		√			A
Khawran				√			√	√	C
Khogay			√				√		B
Khoza Khel		√				√			A
Khoza Khel	Kambo	√				√			A
Klakhel	Kuz Klakhel	√			√				A
Kuz Beyar	Babakur Khel	√			√				A
Kuz Beyar	Bacha Kalay	√	√				√		A
Kuz Beyar	Degan	√				√			A
Kuz Beyar	Drabgay	√							A
Kuz Beyar	Janbaz Khel	√			√				A
Kuz Beyar	Kabolyan	√				√			A
Kuz Beyar	Landay	√		√					A

Appendix G: Priority ranking for rehabilitation of the irrigation system in Khogiani district (Cont...)

Main village	Sub village	Problems to be solved: A	B	C	D	E	F	G	The most important problem
Kuz Beyar	Shergar	√			√				A
Kuz Beyar	Sordag	√	√		√				B
Landay		√				√			E
Loghdara							√		F
Lokhay		√			√			√	A
Lokhay	Landay	√	√				√		B
Lokhay	Malek Asheq	√	√				√		B
Lokhay	Munda Chenar	√			√				A
Loy Kalay (Khadar Khel)		√							A
Mankay			√				√	√	B
Maydan Kanay		√			√				A
Memla		√	√						A
Myagan		√				√			E
Naw Kaza (Naw Bazar)		√			√				A
Nukur Khel		√						√	G
Pera Khel	Abdul Rahim Jan	√				√			E
Pera Khel	Abocopeer	√			√	√			E
Pera Khel	Akhond Zadgan	√		√		√			A
Pera Khel	Angora	√				√			A
Pera Khel	Bada Khel	√							A
Pera Khel	Bar Khalo Khel	√				√			A
Pera Khel	Ghundy Kalay	√		√					A
Pera Khel	Gulabi	√		√		√			A
Pera Khel	Husain Khel	√				√			E
Pera Khel	Jawara					√			E
Pera Khel	Kajir Kalay	√		√		√			C
Pera Khel	Khafyan	√		√		√			A
Pera Khel	Khalo Khel	√		√		√			E
Pera Khel	Lala Khel	√			√	√			A
Pera Khel	Mahmod Kalay	√		√		√			A
Pera Khel	Malek Jalat Kalay	√				√			E
Pera Khel	Mashray	√				√			A
Pera Khel	Mirzali	√				√			A
Pera Khel	Mourgai	√		√		√			A
Pera Khel	Pachayan	√			√	√			A
Pera Khel	Petlagan	√			√	√			A
Pera Khel	Rayan Kalay	√		√					A
Pera Khel	Shama Kalay	√				√			A
Pera Khel	Shinwaro Kalay	√				√			A

Appendix G: Priority ranking for rehabilitation of the irrigation system in Khogiani district (Cont...)

Main village	Sub village	Problems to be solved							The most important problem
		A	B	C	D	E	F	G	
Pera Khel	Sina	√				√			E
Pera Khel	Tagan	√		√		√			A
Pera Khel	Tar Khel	√			√				A
Pera Khel	Zangalian	√		√	√				A
Qader Khan Bandah		√				√			E
Qayum Khel		√						√	G
Qilaghu		√			√	√			E
Samocay		√							A
Samusi		√			√				A
Saqavah		√				√			A
Saway Zangal		√					√		F
Sekandarah		√				√			E
Sengani		√			√				D
Sengani	Bar Sengani	√			√				A
Shaqul Khel		√							A
Shegay		√		√	√				A
Shegay	Bar Kalay	√			√				A
Shorokhel		√		√					A
Sorway Tizha		√							A
Surdog	Abro Deri	√	√				√		B
Surmay		√				√			A
Toda China			√			√	√		B
Zor Bazar		√	√			√			A
Zor Hokumati		√	√				√		A

No. of villages surveyed: 103

A. Construction of intake
B. Reconstruction of karez
C. Lining of water course
D. Maintenance of water course
E. Construction of of other canal structures
F. Maintenance of karez
G. Others

List of others:

1. Construction of reservoir

Appendix H: Type and condition of roads in Khogiani district

Main village	Sub village	Road usable by Pick-up or car	4WD vehicles	Mule track
Ador			B	
Ahmad Khel (Wazir)		B		
Araban		B		
Arghach	Bar Arghach		B	
Arghach	Kuz Arghach		B	
Asman (Banda)				B
Awday			C	
Baghicha			C	
Bar Beyar	Adad Khel		B	
Bar Beyar	Cendaly		B	
Bar Beyar	Omar Khel		B	
Butkhakay			B	
Caparay				C
Chanargay			C	
Chino Miagan			B	
Darga		B		
Darwazagay		B		
Duawa				B
Fateh Kharkay			B	
Godalay		B		
Hakimabad		B		
Hashim Khel			B	
Ibrahim Khel (Loy Kalay)		B		
Jangalkay				C
Jawara			B	
Kalakhel	Bar Kalakhel		B	
Khadar Khel		B		
Kharmane			B	
Khawran			B	
Khogay		B		
Khoza Khel			B	
Khoza Khel	Kambo		B	
Klakhel	Kuz Klakhel			A
Kuz Beyar	Babakur Khel		B	
Kuz Beyar	Bacha Kalay			C
Kuz Beyar	Degan		B	
Kuz Beyar	Drabgay	B		
Kuz Beyar	Janbaz Khel		B	
Kuz Beyar	Kabolyan	B		
Kuz Beyar	Landay		B	

Appendix H: Type and condition of roads in Khogiani district (Cont...)

Main village	Sub village	Road usable by: Pick-up or car	Road usable by: 4WD vehicles	Road usable by: Mule track
Kuz Beyar	Shergar		B	
Kuz Beyar	Sordag		B	
Landay			B	
Loghdara			B	
Lokhay			B	
Lokhay	Landay			A
Lokhay	Malek Asheq			B
Lokhay	Munda Chenar			B
Loy Kalay (Khadar Khel)			C	
Mankay				B
Maydan Kanay		B		
Memla		B		
Myagan				C
Naw Kaza (Naw Bazar)		B		
Nukur Khel		B		
Pera Khel	Abdul Rahim Jan		C	
Pera Khel	Abocopeer	C		
Pera Khel	Akhond Zadgan	C		
Pera Khel	Angora		C	
Pera Khel	Bada Khel	C		
Pera Khel	Bar Khalo Khel			B
Pera Khel	Ghundy Kalay	C		
Pera Khel	Gulabi	C		
Pera Khel	Husain Khel		C	
Pera Khel	Jawara		C	
Pera Khel	Kajir Kalay	C		
Pera Khel	Khafyan	C		
Pera Khel	Khalo Khel	C		
Pera Khel	Lala Khel		C	
Pera Khel	Mahmod Kalay	C		
Pera Khel	Malek Jalat Kalay	C		
Pera Khel	Mashray		C	
Pera Khel	Mirzali			B
Pera Khel	Mourgai	C		
Pera Khel	Pachayan	C		
Pera Khel	Petlagan	C		
Pera Khel	Rayan Kalay	C		
Pera Khel	Shama Kalay	C		
Pera Khel	Shinwaro Kalay	C		

In each survey site, all parts of the questionnaire was filled properly and map of each survey site was marked according to the instructions. ASU Field Coordinator supervised and monitored the field work of this survey and the performance of supervisors. ASU Survey Consultant carried out quick assessment of the surveyed villages. The field work of this survey was carried out in June 1998.

The report writer debriefed the enumerators at the end of field work. Both the training and debriefing of the enumerators took place in Peshawar.

The results of the survey are presented on district basis. This report is structured for ease of reference with appropriate tables presented with the text and relevant lists (at village level) in Appendices.

1.4 Monitoring Results

In order to verify the gathered information of the survey, a monitoring team checked 10 percent of the collected information of the whole surveyed areas. During the monitoring, it was found that the information about irrigation infrastructures, drinking water supply schemes, health facilities, education and damaged infrastructures were collected accurate and there was no significant error in recorded information. However, there was a difference of 10 to 30 percent in information about population, land tenure and livestock of the surveyed villages. The difference was small in smaller villages, but big in larger villages.

Appendix H: Type and condition of roads in Khogiani district (Cont...)

Main village	Sub village	Road usable by: Pick-up or car	4WD vehicles	Mule track
Pera Khel	Sina	C		
Pera Khel	Tagan	C		
Pera Khel	Tar Khel	C		
Pera Khel	Zangalian	C		
Qader Khan Bandah		A		
Qayum Khel			B	
Qilaghu			B	
Samocay		B		
Samusi				C
Saqavah				A
Saway Zangal			B	
Sekandarah				C
Sengani				B
Sengani	Bar Sengani		B	
Shaqul Khel		B		
Shegay				B
Shegay	Bar Kalay			C
Shorokhel				B
Sorway Tizha				B
Surdog	Abro Deri		B	
Surmay				B
Toda China			B	
Zor Bazar			B	
Zor Hokumati			B	

No. of villages surveyed: 103

Condition of roads

A-Good
B-Fairly Good
C-Bad

Appendix I: Drinking water sources in Khogiani district

Main village	Sub village	Stream		Canal		Karez		Spring		Pipe Water	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Ador								Y	Same		
Ahmad Khel (Wazir)		Y									
Araban		Y	Same								
Arghach	Bar Arghach					Y	Same	Y	Same		
Arghach	Kuz Arghach					Y	Same	Y	Same		
Asman (Banda)		Y	Same					Y	Same		
Awday						Y	Same	Y	Same		
Baghicha		Y	Same					Y	Same		
Bar Beyar	Adad Khel							Y	Same		
Bar Beyar	Cendaly							Y	Same		
Bar Beyar	Omar Khel							Y			
Butkhakay		Y	Same					Y	Same		
Caparay								Y	Same		
Chanargay						Y	Same	Y	Same		
Chino Miagan		Y	Same					Y	Same		
Darga						Y	Same	Y	Same		
Darwazagay		Y	Same					Y	Same		
Duawa		Y	Same								
Faten Kharkay		Y	Same			Y	Same	Y	Same		
Godalay						Y	Same	Y	Same		
Hakimabad								Y	Same		
Hashim Khel		Y	Same								
Ibrahim Khel (Loy Kalay)						Y	Same	Y	Same	Y	Same
Jangalkay		Y	Same								
Jawara		Y	Same					Y	Same		

Appendix I: Drinking water sources in Khogiani district (Cont...)

Main village	Sub village	Stream		Canal		Karez		Spring		Pipe Water	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Kalakhel	Bar Kalakhel	Y	Same								
Khadar Khel		Y	Same								
Kharmane								Y	Same		
Khawran						Y	Same				
Khogay											
Khoza Khel		Y						Y			
Khoza Khel	Kambo	Y	Same			Y	Same				
Klakhel	Kuz Klakhel										
Kuz Beyar	Babakur Khel	Y	Same								
Kuz Beyar	Bacha Kalay	Y	Same			Y	Same				
Kuz Beyar	Degan	Y	Same								
Kuz Beyar	Drabgay	Y	Same								
Kuz Beyar	Janbaz Khel	Y	Same								
Kuz Beyar	Kabolyan										
Kuz Beyar	Landay										
Kuz Beyar	Shergar	Y	Same								
Kuz Beyar	Sordag					Y	Same				
Landay		Y	Same					Y	Same		
Loghdara		Y	Same			Y	Same				
Lokhay								Y	Same		
Lokhay	Landay					Y	Same				
Lokhay	Malek Asheq					Y	Same				
Lokhay	Munda Chenar	Y	Same								
Loy Kalay (Khadar Khel)		Y	Same					Y	Same		

Appendix I: Drinking water sources in Khogiani district (Cont...)

Main village	Sub village	Stream		Canal		Karez		Spring		Pipe Water	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Mankay						Y	Same	Y	Same		
Maydan Kanay		Y	Same								
Memla		Y	Same					Y	Same		
Myagan		Y	Same					Y	Same		
Naw Kaza (Naw Bazar)		Y	Same								
Nukur Khel		Y	Same								
Pera Khel	Abdul Rahim Jan	Y	Same								
Pera Khel	Abocopeer	Y	Same								
Pera Khel	Akhond Zadgan	Y	Same								
Pera Khel	Angora	Y	Same								
Pera Khel	Bada Khel	Y	Same								
Pera Khel	Bar Khalo Khel	Y	Same								
Pera Khel	Ghundy Kalay	Y	Same								
Pera Khel	Gulabi	Y	Same								
Pera Khel	Husain Khel	Y	Same								
Pera Khel	Jawara	Y	Same								
Pera Khel	Kajir Kalay	Y	Same								
Pera Khel	Khafyan	Y	Same								
Pera Khel	Khalo Khel	Y	Same								
Pera Khel	Lala Khel	Y	Same								
Pera Khel	Mahmod Kalay	Y	Same								
Pera Khel	Malek Jalat Kalay	Y	Same								
Pera Khel	Mashray	Y	Same								
Pera Khel	Mirzali	Y	Same								

Appendix I: Drinking water sources in Khogiani district (Cont...)

		Stream		Canal		Karez		Spring		Pipe Water	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Pera Khel	Mourgai	Y	Same								
Pera Khel	Pachayan	Y	Same					Y	Same		
Pera Khel	Petlagan	Y	Same								
Pera Khel	Rayan Kalay	Y	Same								
Pera Khel	Shama Kalay	Y	Same								
Pera Khel	Shinwaro Kalay	Y	Same								
Pera Khel	Sina	Y	Same								
Pera Khel	Tagan	Y	Same								
Pera Khel	Tar Khel	Y	Same								
Pera Khel	Zangalian	Y	Same								
Qader Khan Bandah		Y	Same								
Qayum Khel		Y	Same					Y	Same		
Qilaghu		Y	Same			Y	Same	Y	Same		
Samocay											
Samusi		Y	Same								
Saqavah		Y	Same								
Saway Zangal		Y	Same					Y	Same		
Sekandarah		Y	Same					Y	Same		
Sengani		Y	Same					Y	Same		
Sengani	Bar Sengani	Y	Same								
Shaqul Khel		Y	Same								
Shegay		Y	Same								
Shegay	Bar Kalay		Same								
Shorokhel		Y	Same					Y	Same		

Appendix I: Drinking water sources in Khogiani district (Cont...)

Main village	Sub village	Stream		Canal		Karez		Spring		Pipe Water	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Sorway Tizha		Y	Same					Y	Same		
Surdog	Abro Deri	Y				Y	Same	Y	Same		
Surmay								Y	Same		
Toda China						Y	Same				
Zor Bazar								Y	Same		
Zor Hokumati						Y	Same				

No. of villages surveyed: 103

Appendix J: Wells in Khogiani district

		Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Ador		0		25	Less	0		10	Less	0	
Ahmad Khel (Wazir)		0		50	Less	0		8		0	
Araban		0		15	Less	0		4		0	
Arghach	Bar Arghach	0		45	Less	0		10	Less	0	
Arghach	Kuz Arghach	0		20	Less	0		30	Less	0	
Asman (Banda)		0		0		0		0		0	
Awday		0		0		0		2	Same	0	
Baghicha		0		3	Same	0		0		0	
Bar Beyar	Adad Khel	0		150	Less	0		10	Less	0	
Bar Beyar	Cendaly	0		20	Less	0		7	Less	0	
Bar Beyar	Omar Khel	0		15	Less	0		15	Less	0	
Butkhakay		0		10	Less	0		3		0	
Caparay		0		0		0		0		0	
Chanargay		0		0		0		0		0	
Chino Miagan		0		30	Less	0		3	Less	0	
Darga		0		1		0		0		0	
Darwazagay		0		0		0		3	Less	0	
Duawa		0		0		0		0		0	
Fateh Kharkay		0		25	Less	0		6	Less	0	
Godalay		0		0		0		0		0	
Hakimabad		0		40	Same	0		30	Less	0	
Hashim Khel		0		15	Less	0		2	Less	0	
Ibrahim Khel (Loy Kalay)		0		0		0		3	Less	0	
Jangalkay		0		0		0		0		0	
Jawara		0		60	Less	0		15	Less	0	

Appendix J: Wells in Khogiani district (Cont...)

		Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Kalakhel	Bar Kalakhel	0		15	Less	0		8	Less	0	
Khadar Khel		0		0		0		0		0	
Kharmane		0		60	Same	0		15	Less	0	
Khawran		0		15	Less	0		4	Less	0	
Khogay		0		5	Less	0		22	Less	0	
Khoza Khel		0		20		0		30		0	
Khoza Khel	Kambo	0		30	Less	0		0		0	
Klakhel	Kuz Klakhel	0		20	Less	0		5	Less	0	
Kuz Beyar	Babakur Khel	0		2	Same	0		2	Less	0	
Kuz Beyar	Bacha Kalay	0		15	Less	0		3	Less	0	
Kuz Beyar	Degan	0		80		0		6		0	
Kuz Beyar	Drabgay	0		20	Same	0		1		0	
Kuz Beyar	Janbaz Khel	0		60	Less	0		11		0	
Kuz Beyar	Kabolyan	0		15	Less	0		2	Less	0	
Kuz Beyar	Landay	0		50	Less	0		5	Same	0	
Kuz Beyar	Shergar	0		5	Less	0		10	Less	0	
Kuz Beyar	Sordag	0		0		0		0		0	
Landay		0		40	Less	0		2	Less	0	
Loghdara		0		5	Same	0		6	Same	0	
Lokhay		0		13	Less	0		14	Less	0	
Lokhay	Landay	1		30	Less	0		3	Less	0	
Lokhay	Malek Asheq	0		10	Less	0		5	Less	0	
Lokhay	Munda Chenar	0		50	Less	0		6		0	
Loy Kalay (Khadar Khel)		0		0		0		1	Less	0	

Appendix J: Wells in Khogiani district (Cont...)

		Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Mankay		0		0		0		1		0	
Maydan Kanay		0		10	Less	0		2	Less	0	
Memla		0		40	Less	0		35	Less	0	
Myagan		0		5	Less	0		0		0	
Naw Kaza (Naw Bazar)		0		270	Less	0		5	Less	0	
Nukur Khel		0		0		0		2	Same	0	
Pera Khel	Abdul Rahim Jan	0		0		0		1		0	
Pera Khel	Abocopeer	0		0		0		1	Same	0	
Pera Khel	Akhond Zadgan	0		0		0		1		0	
Pera Khel	Angora	0		0		0		0		0	
Pera Khel	Bada Khel	0		0		0		0		0	
Pera Khel	Bar Khalo Khel	0		0		0		0		0	
Pera Khel	Ghundy Kalay	0		0		0		0		0	
Pera Khel	Gulabi	0		0		0		0		0	
Pera Khel	Husain Khel	0		0		0		0		0	
Pera Khel	Jawara	0		0		0		0		0	
Pera Khel	Kajir Kalay	0		0		0		0		0	
Pera Khel	Khafyan	0		0		0		0		0	
Pera Khel	Khalo Khel	0		0		0		4		0	
Pera Khel	Lala Khel	0		0		0		0		0	
Pera Khel	Mahmod Kalay	0		1		0		0		0	
Pera Khel	Malek Jalat Kalay	0		0		0		0		0	
Pera Khel	Mashray	0		0		0		1		0	
Pera Khel	Mirzali	0		0		0		0		0	

Appendix J: Wells in Khogiani district (Cont...)

Main village	Sub village	Number of private wells				Number of public wells					
		Deep		Shallow		Deep		Shallow		Diesel water pump	
		Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Pera Khel	Mourgai	0		0		0		0		0	
Pera Khel	Pachayan	0		0		0		0		0	
Pera Khel	Petlagan	0		0		0		0		0	
Pera Khel	Rayan Kalay	0		0		0		0		0	
Pera Khel	Shama Kalay	0		0		0		0		0	
Pera Khel	Shinwaro Kalay	0		0		0		0		0	
Pera Khel	Sina	0		0		0		0		0	
Pera Khel	Tagan	0		0		0		0		0	
Pera Khel	Tar Khel	0		0		0		1		0	
Pera Khel	Zangalian	0		0		0		0		0	
Qader Khan Bandah		0		0		1		2		1	
Qayum Khel		0		30	Less	0		6		0	
Qilaghu		0		50	Less	0		20	Less	0	
Samocay		0		15	Less	0		5	Less	0	
Samusi		0		0		0		0		0	
Saqavah		0		0		0		7		0	
Saway Zangal		0		0		0		2	Less	0	
Sekandarah		0		0		0		0		0	
Sengani		0		0		0		0		0	
Sengani	Bar Sengani	0		0		0		0		0	
Shaqul Khel		0		20	Same	0		2	Less	0	
Shegay		0		8		0		3		0	
Shegay	Bar Kalay	0		2		0		2		0	
Shorokhel		0		5	Less	0		10	Less	0	

2. POPULATION AND REPATRIATION

2.1 Population

Based on the survey, the totality of households living in 103 villages of Khogiani district are 10,949. The average number of people per household is estimated at 8, thus the total population of the survey is estimated 87,592 (see Table 2.1 and Appendix C).

Table 2.1: Population and refugee status

Number of households in the district					Refugee		
Not native	Returnees	Never Displaced/refugee	Total	Displaced	Pakistan	Iran	Total
826	6076	4047	10949	635	2730	12	3377

No. of villages surveyed: 103

2.2 Repatriation

A total of 6,076 households (48,608 persons) have returned to the survey area, during the last 8 years or since the withdrawal of the Soviet Army from Afghanistan. Almost 4,047 households have never been displaced or refugee. Besides, 826 households from other districts have settled in this district. A total of 2,742 households were still refugee, with 2,730 households in Pakistan and 12 households in Iran, and 635 households were still displaced inside Afghanistan (see Table 2.1 and Appendix C).

The total number of people in the survey area at the end of 1989 was 25,000 to 28,000 people[6], which grew to 85,032 persons in June 1998. The district still remains as refugee potential area, because the survey data figured out that around 24% of the inhabitants or 3,377 households (27,016 persons) are either internally displaced or refugee in Pakistan and Iran.

The surveying took place during the harvesting period and at the peak farming season in Khogiani district. Besides, the beautiful weather and pollution free environment is an encouraging factor for many people to adopt seasonal immigration to Khogiani district and its surrounding areas, therefore, the data estimates 826 households (6,608 individuals) from other parts of Afghanistan in the district at the surveying period.

[6] *UNHCR Background Report, __Nangarhar Province__, 1989, P. 29.*

Appendix J: Wells in Khogiani district (Cont...)

Main village	Sub village	Number of private wells: Deep – Present	Deep – Before War	Shallow – Present	Shallow – Before War	Number of public wells: Deep – Present	Deep – Before War	Shallow – Present	Shallow – Before War	Diesel water pump – Present	Diesel water pump – Before War
Sorway Tizha		0		0		0		0		0	
Surdog	Abro Deri	0		10	Less	0		5	Less	0	
Surmay		0		9	Less	0		10	Less	0	
Toda China		0		3	Less	0		2	Same	0	
Zor Bazar		0		18	Same	0		3	Less	0	
Zor Hokumati		0		57	Same	0		5	Less	0	

No. of villages surveyed: 103

Appendix K: Clinics in Khogiani district

		No. of clinic		Type of clinic		Number of male doctors		Number of female doctors		Number of male MHW		Number of Female MHW		Number of male nurse		Number of female nurse	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Befo Wa
Khoza Khel		1		C2		1		1		8		5		2		0	
Lokhay		1		C2		0		0		5		0		4		0	
Naw Kaza (Naw Bazar)		1		C1		3		1		4		0		4		0	

No. of villages surveyed: 103

Appendix K: Clinics in Khogiani district (Cont...)

		Funding source						Activity							
		Salary		Material		Building		Day/week		Hour/day		Average Patient/day		EPI introduced	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Khoza Khel		SCA		SCA		Y		6		7		60		Y	
Lokhay		SCA		SCA		N		6		6		40		Y	
Naw Kaza (Naw Bazar)		ARC		ARC		Y		6		8		100		Y	

No. of villages surveyed: 103

Appendix K1: Distance of the villages from the nearest clinic in Khogiani district

S/N	Main village	Sub village	Distance (km)
1	Ador		7.0
2	Ahmad Khel (Wazir)		6.0
3	Araban		12.0
4	Arghach	Bar Arghach	8.0
5	Arghach	Kuz Arghach	6.0
6	Asman (Banda)		12.0
7	Awday		8.0
8	Baghicha		6.0
9	Bar Beyar	Adad Khel	3.0
10	Bar Beyar	Cendaly	14.0
11	Bar Beyar	Omar Khel	5.0
12	Butkhakay		6.0
13	Caparay		20.0
14	Chanargay		8.0
15	Chino Miagan		10.0
16	Darga		8.0
17	Darwazagay		10.0
18	Duawa		70.0
19	Fateh Kharkay		13.0
20	Godalay		8.0
21	Hakimabad		1.0
22	Hashim Khel		12.0
23	Ibrahim Khel (Loy Kalay)		12.0
24	Jangalkay		50.0
25	Jawara		4.0
26	Kalakhel	Bar Kalakhel	4.0
27	Khadar Khel		8.0
28	Kharmane		4.0
29	Khawran		6.0
30	Khogay		7.0
31	Khoza Khel	Kambo	3.0
32	Klakhel	Kuz Klakhel	5.0
33	Kuz Beyar	Babakur Khel	6.0
34	Kuz Beyar	Bacha Kalay	4.0
35	Kuz Beyar	Degan	2.0
36	Kuz Beyar	Drabgay	3.0
37	Kuz Beyar	Janbaz Khel	5.0
38	Kuz Beyar	Kabolyan	7.0
39	Kuz Beyar	Landay	5.0
40	Kuz Beyar	Shergar	3.0

Appendix K1: Distance of the villages from the nearest clinic in Khogiani district (Cont...)

S/N	Main village	Sub village	Distance (km)
41	Kuz Beyar	Sordag	2.0
42	Landay		9.0
43	Loghdara		8.0
44	Lokhay	Landay	3.0
45	Lokhay	Malek Asheq	5.0
46	Lokhay	Munda Chenar	2.0
47	Loy Kalay (Khadar Khel)		8.0
48	Mankay		8.0
49	Maydan Kanay		2.0
50	Memla		10.0
51	Myagan		50.0
52	Nukur Khel		12.0
53	Pera Khel	Abdul Rahim Jan	3.0
54	Pera Khel	Abocopeer	0.3
55	Pera Khel	Akhond Zadgan	4.0
56	Pera Khel	Angora	7.0
57	Pera Khel	Bada Khel	4.0
58	Pera Khel	Bar Khalo Khel	6.5
59	Pera Khel	Ghundy Kalay	4.0
60	Pera Khel	Gulabi	5.0
61	Pera Khel	Husain Khel	6.0
62	Pera Khel	Jawara	5.0
63	Pera Khel	Kajir Kalay	6.0
64	Pera Khel	Khafyan	2.0
65	Pera Khel	Khalo Khel	1.0
66	Pera Khel	Lala Khel	6.0
67	Pera Khel	Mahmod Kalay	3.0
68	Pera Khel	Malek Jalat Kalay	1.0
69	Pera Khel	Mashray	2.5
70	Pera Khel	Mirzali	9.0
71	Pera Khel	Mourgai	7.0
72	Pera Khel	Pachayan	1.0
73	Pera Khel	Petlagan	2.0
74	Pera Khel	Rayan Kalay	2.0
75	Pera Khel	Shama Kalay	4.0
76	Pera Khel	Shinwaro Kalay	3.5
77	Pera Khel	Sina	2.0
78	Pera Khel	Tagan	2.0
79	Pera Khel	Tar Khel	4.0

Appendix K1: Distance of the villages from the nearest clinic in Khogiani district (Cont...)

S/N	Main village	Sub village	Distance (km)
80	Pera Khel	Zangalian	2.0
81	Qader Khan Bandah		2.0
82	Qayum Khel		10.0
83	Qilaghu		5.0
84	Samocay		1.0
85	Samusi		50.0
86	Saqavah		3.0
87	Saway Zangal		10.0
88	Sekandarah		60.0
89	Sengani		12.0
90	Sengani	Bar Sengani	12.0
91	Shaqul Khel		1.0
92	Shegay		8.0
93	Shegay	Bar Kalay	9.0
94	Shorokhel		8.0
95	Sorway Tizha		7.0
96	Surdog	Abro Deri	11.0
97	Surmay		3.0
98	Toda China		10.0
99	Zor Bazar		2.0
100	Zor Hokumati		3.0

No. of villages surveyed: 103

Appendix L: Pharmacies in Khogiani district

Main village	Sub village	Number of pharmacy	
		Private	Public
Ador		1	0
Ahmad Khel (Wazir)		4	0
Araban		1	0
Arghach	Bar Arghach	2	0
Baghicha		1	0
Bar Beyar	Cendaly	1	0
Godalay		1	0
Ibrahim Khel (Loy Kalay)		1	0
Khoza Khel		1	0
Kuz Beyar	Babakur Khel	1	0
Kuz Beyar	Bacha Kalay	1	0
Kuz Beyar	Janbaz Khel	1	0
Kuz Beyar	Kabolyan	2	0
Kuz Beyar	Landay	1	0
Lokhay		3	0
Lokhay	Landay	1	0
Lokhay	Malek Asheq	1	0
Memla		4	0
Naw Kaza (Naw Bazar)		4	2
Pera Khel	Abocopeer	1	0
Pera Khel	Zangalian	1	0
Saqavah		2	0
Sengani		1	0
Zor Bazar		2	0

No. of villages surveyed: 103

Appendix L1: Distance of the villages from the nearest pharmacy in Khogiani district

S/N	Main village	Sub village	Distance (km)
1	Arghach	Kuz Arghach	6.0
2	Asman (Banda)		12.0
3	Awday		8.0
4	Bar Beyar	Adad Khel	3.0
5	Bar Beyar	Omar Khel	5.0
6	Butkhakay		6.0
7	Caparay		20.0
8	Chanargay		8.0
9	Chino Miagan		10.0
10	Darga		8.0
11	Darwazagay		10.0
12	Duawa		70.0
13	Fateh Kharkay		13.0
14	Hakimabad		1.0
15	Hashim Khel		12.0
16	Jangalkay		50.0
17	Jawara		4.0
18	Kalakhel	Bar Kalakhel	4.0
19	Khadar Khel		8.0
20	Kharmane		4.0
21	Khawran		6.0
22	Khogay		7.0
23	Khoza Khel	Kambo	3.0
24	Klakhel	Kuz Klakhel	5.0
25	Kuz Beyar	Degan	2.0
26	Kuz Beyar	Drabgay	3.0
27	Kuz Beyar	Shergar	3.0
28	Kuz Beyar	Sordag	2.0
29	Landay		9.0
30	Loghdara		8.0
31	Lokhay	Munda Chenar	2.0
32	Loy Kalay (Khadar Khel)		8.0
33	Mankay		8.0
34	Maydan Kanay		2.0
35	Myagan		50.0
36	Nukur Khel		12.0
37	Pera Khel	Abdul Rahim Jan	3.0
38	Pera Khel	Akhond Zadgan	4.0
39	Pera Khel	Angora	7.0
40	Pera Khel	Bada Khel	4.0

Appendix L1: Distance of the villages from the nearest pharmacy in Khogiani district (Cont...)

S/N	Main village	Sub village	Distance (km)
41	Pera Khel	Bar Khalo Khel	6.5
42	Pera Khel	Ghundy Kalay	4.0
43	Pera Khel	Gulabi	5.0
44	Pera Khel	Husain Khel	6.0
45	Pera Khel	Jawara	5.0
46	Pera Khel	Kajir Kalay	6.0
47	Pera Khel	Khafyan	2.0
48	Pera Khel	Khalo Khel	1.0
49	Pera Khel	Lala Khel	6.0
50	Pera Khel	Mahmod Kalay	3.0
51	Pera Khel	Malek Jalat Kalay	1.0
52	Pera Khel	Mashray	2.5
53	Pera Khel	Mirzali	9.0
54	Pera Khel	Mourgai	7.0
55	Pera Khel	Pachayan	1.0
56	Pera Khel	Petlagan	2.0
57	Pera Khel	Rayan Kalay	2.0
58	Pera Khel	Shama Kalay	4.0
59	Pera Khel	Shinwaro Kalay	3.5
60	Pera Khel	Sina	2.0
61	Pera Khel	Tagan	2.0
62	Pera Khel	Tar Khel	4.0
63	Qader Khan Bandah		2.0
64	Qayum Khel		10.0
65	Qilaghu		5.0
66	Samocay		1.0
67	Samusi		50.0
68	Saway Zangal		10.0
69	Sekandarah		60.0
70	Sengani	Bar Sengani	12.0
71	Shaqul Khel		1.0
72	Shegay		8.0
73	Shegay	Bar Kalay	9.0
74	Shorokhel		8.0
75	Sorway Tizha		7.0
76	Surdog	Abro Deri	11.0
77	Surmay		3.0
78	Toda China		10.0
79	Zor Hokumati		3.0

No. of villages surveyed: 103

Appendix M: Schools in Khogiani district

		Number of functioning boys schools								Number of functioning girls schools							
				Public								Public					
		Home		Number		Type		No. of students		Home		Number		Type		No. of students	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Arghach	Bar Arghach	0		1		P		350		0		0				0	
Baghicha		0		1	Same	P	S	70	More	0		0				0	
Darga		0		1	Same	P		200		0		0				0	
Fateh Kharkay		0		1	Same	S	S	250	Less	0		0				0	
Hashim Khel		0		1	Same	P	P	500	Less	0		0				0	
Ibrahim Khel (Loy Kalay)		0		1	Same	P	P	80	More	0		0				0	
Jawara		1		0				30		0		0				0	
Kharmane		0		1		S		450		0		0				0	
Khawran		0		1		P	P	200	More	0		0				0	
Khogay		0		1		P		250		0		0				0	
Khoza Khel	Kambo	0		1	Same	P	P	480		0		0				0	
Kuz Beyar	Degan	0		1	Same	S	P	960	Less	0		0				0	
Lokhay		0		1	Same	S	P	650	Less	0		0				0	
Memla		0		1		P		250		0		0				0	
Myagan		0		1	Same	P	P	60	Same	0		0				0	
Naw Kaza (Naw Bazar)		0		1	Same	P	P	250	Less	0		1	Same	P	P	250	Less
Nukur Khel		0		1	Same	P	P	200	More	0		0				0	
Pera Khel	Abocopeer	0		1		P		500		0		0				0	
Pera Khel	Mourgai	0		1		P		150		0		0				0	
Qayum Khel		0		1	Same	P	P	350	More	0		0				0	
Qilaghu		0		2		P		1000		0		1		P		150	
Sengani		0		1	Same	P	P	200		0		0				0	
Surdog	Abro Deri	0		1		P		350	Less	0		0				0	
Surmay		0		1	Same	P	P	300	Less	0		0				0	
Zor Bazar		0		1	Same	S	S	900	Same	0		0				0	
Zor Hokumati		0		1	Same	P	P	800	Same	0		0				0	

No. of villages surveyed: 103

P (Primary) , S (Secondary

Appendix M: Schools in Khogiani district (Cont...)

		Number of teachers								Funding source			
		Male		Female		Education material		Building		Salary		Material	
Main village	Sub village	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War	Present	Before War
Arghach	Bar Arghach	10		0		Y		N		GOVT.		GOVT.	
Baghicha		2	More	0		Y	Y	N	N	GOVT.	GOVT.	GOVT.	GOVT.
Darga		2		0		Y		Y		GOVT.		GOVT.	
Fateh Kharkay		13	More	0		Y	Y	N	Y	GOVT.	GOVT.	GOVT.	GOVT.
Hashim Khel		13	Less	0		Y		Y	Y	GOVT.		GOVT.	
Ibrahim Khel (Loy Kalay)		3	More	0		Y		N	Y	GOVT.		GOVT.	
Jawara		2		0									
Kharmane		10		0		Y		N		GOVT.		GOVT.	
Khawran		10	More	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Khogay		8		0		Y	N	N	N	GOVT.		GOVT.	
Khoza Khel	Kambo	15	Less	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Kuz Beyar	Degan	18	Less	0		Y	Y	Y	Y	GOVT.	GOVT.	SCA	GOVT.
Lokhay		24	Less	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Memla		10		0		Y		N		GOVT.		GOVT.	
Myagan		4	More	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Naw Kaza (Naw Bazar)		8	Less	0		Y	Y	Y	Y	ARC	GOVT.	ARC	GOVT.
Nukur Khel		14	More	0		Y		N		GOVT.		GOVT.	
Pera Khel	Abocopeer	15		0		Y		N		GOVT.		GOVT.	
Pera Khel	Mourgai	4		0		N		N					
Qayum Khel		10	More	0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Qilaghu		10		0		Y	Y	N	N	GOVT.		GOVT.	
Sengani		4		0		Y	Y	Y	Y	GOVT.	GOVT.	GOVT.	GOVT.
Surdog	Abro Deri	12	Same	0		Y	Y	N	N	GOVT.		GOVT.	
Surmay		0		3	More	Y	N	N	N	GOVT.		GOVT.	
Zor Bazar		35	Same	0		Y	Y	N	Y	GOVT.	GOVT.	SCA	
Zor Hokumati		32	Same	0		Y	Y	Y	N	GOVT.		GOVT.	

No. of villages surveyed: 103

It was not possible to specify from where these displaced households came from. According to the enumerators, the displaced families might have been from neighboring districts, i.e. residence of Surkh Rud, Chaparhar, and Jalalabad where the harvest has been reaped and the weather became too hot. These households may therefore have chosen Khogiani as a potential job opportunity during the harvest time and sought seasonal immigration to live in a cool/comfortable weather during the hot summer.

3. LAND TENURE

3.1 Cultivated Land

A total of 43,891 jeribs (8,778 hectares) of arable land is cultivated annually in the surveyed area. From that, 39,361 jeribs (7,872 hectares) is irrigated and 4,530 jeribs (906 hectares) is rainfed (see Table 3.1 and Appendix D).

Table 3.1: Land tenure

Land cultivated by households during one year (jerib)			Number of households who are			
Irrigated	Rainfed	Total	Only owner	Only tenant	Owner+tenant	Total households
39361	4530	43891	5765	1287	2107	9159

No. of villages surveyed: 103

3.2 Land Ownership

Farming is a major activity of the residents of Khogiani district and most of the people are involved in agriculture. Out of 10,949 households living in the area at the survey time, 9,159 of them were engaged in farming activities. The survey shows that 5,765 households are land owners, 1,287 households are tenants, and 2,107 households cultivating their own land as well as renting land of other people (see Table 3.1 and Appendix D).

4. LIVESTOCK

Livestock husbandry is another major activity of the people in the surveyed area. Selling of livestock and their products is one of the main source of income for households.

Appendix N: Damaged infrastructures in Khogiani district

Main village	Sub village	Number of Houses: Unaffect	Number of Houses: Damaged	Number of Houses: Destroyed	Priority ranking for rehabi-litation	No. of Health clinic: Unaffect	No. of Health clinic: Damaged	No. of Health clinic: Destroyed	Priority ranking for rehabi-litation	No. of School: Unaffect	No. of School: Damaged	No. of School: Destroyed	Priority ranking for rehabi-litation
Ador		80	10	15	3	0	0	0	0	0	0	0	0
Ahmad Khel (Wazir)		200	15	17	1	0	0	0	0	0	0	0	0
Araban		15	10	4	1	0	0	0	0	0	0	0	0
Arghach	Bar Arghach	90	15	10	1	0	0	0	0	0	0	0	0
Arghach	Kuz Arghach	50	20	30	1	0	0	0	0	0	0	0	0
Asman (Banda)		40	30	10	1	0	0	0	0	0	0	0	0
Awday		60	20	10	1	0	0	0	0	0	0	0	0
Baghicha		60	10	5	1	0	0	0	0	0	0	0	0
Bar Beyar	Adad Khel	120	50	15	2	0	0	0	0	0	0	0	0
Bar Beyar	Cendaly	100	30	20	2	0	0	0	0	0	0	0	0
Bar Beyar	Omar Khel	30	40	15	2	0	0	0	0	0	0	0	0
Butkhakay		20	5	3	1	0	0	0	0	0	0	0	0
Caparay		0	80	15	2	0	0	0	0	0	0	0	0
Chanargay		15	6	4	1	0	0	0	0	0	0	0	0
Chino Miagan		40	10	3	1	0	0	0	0	0	0	0	0
Darga		30	40	10	1	0	0	0	0	1	0	0	0
Darwazagay		15	3	4	1	0	0	0	0	0	0	0	0
Duawa		50	20	5	2	0	0	0	0	0	0	0	0
Fateh Kharkay		105	30	5	2	0	0	0	0	0	1	0	1
Godalay		30	10	0	1	0	0	0	0	0	0	0	0
Hakimabad		160	20	0	1	0	0	0	0	0	0	0	0
Hashim Khel		140	30	10	1	0	0	0	0	1	0	0	0
Ibrahim Khel (Loy Kalay)		120	30	120	1	0	0	0	0	0	0	1	2
Jangalkay		15	30	3	2	0	0	0	0	0	0	0	0
Jawara		60	10	5	1	0	0	0	0	0	0	0	0

Appendix N: Damaged infrastructures in Khogiani district (Cont...)

Main village	Sub village	Number of Houses			Priority ranking for rehabi-litation	No. of Health clinic			Priority ranking for rehabi-litation	No. of School			Priority ranking for rehabi-litation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Kalakhel	Bar Kalakhel	60	15	5	2	0	0	0	0	0	0	0	0
Khadar Khel		8	6	2	1	0	0	0	0	0	0	0	0
Kharmane		50	10	1	1	0	0	0	0	0	0	0	0
Khawran		40	5	15	1	0	0	0	0	1	0	0	0
Khogay		100	30	10	2	0	0	0	0	0	0	0	0
Khoza Khel		150	50	30	1	1	0	0	0	0	0	0	0
Khoza Khel	Kambo	230	50	40	2	0	0	0	0	0	1	0	1
Klakhel	Kuz Klakhel	25	10	5	2	0	0	0	0	0	0	0	0
Kuz Beyar	Babakur Khel	0	40	0	1	0	0	0	0	0	0	0	0
Kuz Beyar	Bacha Kalay	20	50	15	3	0	0	0	0	0	0	0	0
Kuz Beyar	Degan	50	10	0	3	0	0	0	0	0	1	0	1
Kuz Beyar	Drabgay	30	0	3	1	0	0	0	0	0	0	0	0
Kuz Beyar	Janbaz Khel	40	20	15	1	0	0	0	0	0	0	0	0
Kuz Beyar	Kabolyan	15	30	5	2	0	0	0	0	0	0	0	0
Kuz Beyar	Landay	5	130	15	1	0	0	0	0	0	0	0	0
Kuz Beyar	Shergar	30	10	0	2	0	0	0	0	0	0	0	0
Kuz Beyar	Sordag	20	10	2	1	0	0	0	0	0	0	0	0
Landay		40	10	3	1	0	0	0	0	0	0	0	0
Loghdara		60	5	7	1	0	0	0	0	0	0	0	0
Lokhay		100	100	10	1	0	0	0	0	1	0	0	0
Lokhay	Landay	20	15	5	1	0	0	0	0	0	0	0	0
Lokhay	Malek Asheq	20	10	5	1	0	0	0	0	0	0	0	0
Lokhay	Munda Chenar	45	30	20	1	0	0	0	0	0	0	0	0
Loy Kalay (Khadar Khel)		40	10	40	1	0	0	0	0	0	0	1	2

Appendix N: Damaged infrastructures in Khogiani district (Cont...)

Main village	Sub village	Number of Houses			Priority ranking for rehabilitation	No. of Health clinic			Priority ranking for rehabilitation	No. of School			Priority ranking for rehabilitation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Mankay		30	20	10	1	0	0	0	0	0	0	0	0
Maydan Kanay		20	5	2	2	0	0	0	0	0	0	0	0
Memla		250	30	20	1	0	0	0	0	0	0	0	0
Myagan		180	50	0	2	0	0	0	0	0	1	0	1
Naw Kaza (Naw Bazar)		100	150	20	2	1	0	0	0	2	0	0	0
Nukur Khel		200	150	0	1	0	0	0	0	0	0	0	0
Pera Khel	Abdul Rahim Jan	8	9	8	1	0	0	0	0	0	0	0	0
Pera Khel	Abocopeer	5	20	0	1	0	0	0	0	0	0	0	0
Pera Khel	Akhond Zadgan	7	10	10	1	0	0	0	0	0	0	0	0
Pera Khel	Angora	20	19	0	1	0	0	0	0	0	0	0	0
Pera Khel	Bada Khel	15	15	5	1	0	0	0	0	0	0	0	0
Pera Khel	Bar Khalo Khel	15	50	30	1	0	0	0	0	0	0	0	0
Pera Khel	Ghundy Kalay	0	8	2	1	0	0	0	0	0	0	0	0
Pera Khel	Gulabi	6	0	20	1	0	0	0	0	0	0	0	0
Pera Khel	Husain Khel	0	10	30	1	0	0	0	0	0	0	0	0
Pera Khel	Jawara	8	10	2	1	0	0	0	0	0	0	0	0
Pera Khel	Kajir Kalay	4	7	15	1	0	0	0	0	0	0	0	0
Pera Khel	Khafyan	10	0	2	1	0	0	0	0	0	0	0	0
Pera Khel	Khalo Khel	10	50	0	1	0	0	0	0	0	0	0	0
Pera Khel	Lala Khel	8	15	4	1	0	0	0	0	0	0	0	0
Pera Khel	Mahmod Kalay	4	3	4	1	0	0	0	0	0	0	0	0
Pera Khel	Malek Jalat Kalay	5	15	0	1	0	0	0	0	0	0	0	0
Pera Khel	Mashray	7	13	12	1	0	0	0	0	0	0	0	0
Pera Khel	Mirzali	5	6	12	1	0	0	0	0	0	0	0	0

Appendix N: Damaged infrastructures in Khogiani district (Cont...)

Main village	Sub village	Number of Houses: Unaffect	Number of Houses: Damaged	Number of Houses: Destroyed	Priority ranking for rehabi-litation	No. of Health clinic: Unaffect	No. of Health clinic: Damaged	No. of Health clinic: Destroyed	Priority ranking for rehabi-litation	No. of School: Unaffect	No. of School: Damaged	No. of School: Destroyed	Priority ranking for rehabi-litation
Pera Khel	Mourgai	10	60	20	1	0	0	0	0	0	0	0	0
Pera Khel	Pachayan	6	12	5	1	0	0	0	0	0	0	0	0
Pera Khel	Petlagan	4	0	4	1	0	0	0	0	0	0	0	0
Pera Khel	Rayan Kalay	6	8	4	1	0	0	0	0	0	0	0	0
Pera Khel	Shama Kalay	8	16	9	1	0	0	0	0	0	0	0	0
Pera Khel	Shinwaro Kalay	8	24	0	1	0	0	0	0	0	0	0	0
Pera Khel	Sina	6	14	0	1	0	0	0	0	0	0	0	0
Pera Khel	Tagan	0	14	0	1	0	0	0	0	0	0	0	0
Pera Khel	Tar Khel	0	13	10	1	0	0	0	0	0	0	0	0
Pera Khel	Zangalian	10	10	5	1	0	0	0	0	0	0	0	0
Qader Khan Bandah		15	4	2	1	0	0	0	0	0	0	0	0
Qayum Khel		24	30	0	1	0	0	0	0	1	0	0	0
Qilaghu		600	150	50	1	0	0	0	0	0	0	0	0
Samocay		20	4	3	1	0	0	0	0	0	0	0	0
Samusi		30	5	0	2	0	0	0	0	0	0	0	0
Saqavah		120	50	0	1	0	0	0	0	0	0	0	0
Saway Zangal		8	2	1	1	0	0	0	0	0	0	0	0
Sekandarah		20	15	0	1	0	0	0	0	0	0	0	0
Sengani		50	40	0	2	0	0	0	0	0	1	0	1
Sengani	Bar Sengani	50	20	3	1	0	0	0	0	0	0	0	0
Shaqul Khel		30	20	10	1	0	0	0	0	0	0	0	0
Shegay		10	16	4	1	0	0	0	0	0	0	0	0
Shegay	Bar Kalay	10	5	0	1	0	0	0	0	0	0	0	0
Shorokhel		30	30	80	1	0	0	0	0	0	0	0	0

Appendix N: Damaged infrastructures in Khogiani district (Cont...)

Main village	Sub village	Number of Houses			Priority ranking for rehabilitation	No. of Health clinic			Priority ranking for rehabilitation	No. of School			Priority ranking for rehabilitation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Sorway Tizha		5	5	15	1	0	0	0	0	0	0	0	0
Surdog	Abro Deri	40	20	5	1	0	0	0	0	0	0	1	3
Surmay		50	30	10	3	0	0	0	0	0	0	1	1
Toda China		20	4	3	1	0	0	0	0	0	0	0	0
Zor Bazar		60	15	15	2	0	0	0	0	0	0	1	3
Zor Hokumati		80	20	15	1	0	0	0	0	1	0	0	0

No. of villages surveyed: 103

Appendix O: Damaged water supply infrastructures in Khogiani district

Main village	Sub village	No. of drinking water supply scheme: Unaffect	Damaged	Destroyed	Priority ranking for rehabilitation	No. of Wells: Unaffect	Damaged	Destroyed	Priority ranking for rehabilitation
Ador		0	1	5	2	15	15	5	0
Ahmad Khel (Wazir)		0	0	0	0	40	10	8	0
Araban		0	0	0	0	14	5	0	0
Arghach	Bar Arghach	0	0	0	0	40	15	0	0
Arghach	Kuz Arghach	0	0	0	0	40	5	5	0
Asman (Banda)		0	0	0	0	0	0	0	0
Awday		0	0	0	0	2	0	0	0
Baghicha		0	0	0	0	3	0	0	0
Bar Beyar	Adad Khel	0	0	0	0	100	42	18	0
Bar Beyar	Cendaly	0	0	0	0	13	12	2	0
Bar Beyar	Omar Khel	0	1	0	3	5	10	15	0
Butkhakay		0	0	0	0	8	2	3	0
Caparay		0	1	0	1	0	0	0	0
Chanargay		0	0	0	0	0	0	0	0
Chino Miagan		0	0	0	0	20	10	3	0
Darga		0	0	0	0	1	0	0	0
Darwazagay		0	0	0	0	3	0	0	0
Duawa		1	1	0	1	0	0	0	0
Fateh Kharkay		0	0	0	0	20	4	7	1
Godalay		0	0	0	0	0	0	0	0
Hakimabad		0	0	0	0	40	15	15	0
Hashim Khel		0	0	0	0	12	3	2	0
Ibrahim Khel (Loy Kalay)		0	0	0	0	3	0	0	2
Jangalkay		0	1	0	1	0	0	0	0
Jawara		0	0	0	0	40	20	15	0
Kalakhel	Bar Kalakhel	0	0	0	0	10	8	5	0
Khadar Khel		0	0	0	0	0	0	0	0
Kharmane		0	0	0	0	45	25	5	0
Khawran		0	0	0	0	10	5	4	0
Khogay		0	0	0	0	20	5	2	0
Khoza Khel		0	0	0	0	30	12	8	0
Khoza Khel	Kambo	0	0	0	0	25	5	0	1
Klakhel	Kuz Klakhel	0	0	0	0	3	17	5	0
Kuz Beyar	Babakur Khel	0	0	0	0	2	2	0	0
Kuz Beyar	Bacha Kalay	0	1	0	2	3	7	8	0
Kuz Beyar	Degan	0	0	0	0	66	16	4	1
Kuz Beyar	Drabgay	0	0	0	0	6	11	4	0

Appendix O: Damaged water supply infrastructures in Khogiani district (Cont...)

Main village	Sub village	No. of drinking water supply scheme			Priority ranking for rehabi-litation	No. of Wells			Priority ranking for rehabi-litation
		Unaffect	Damaged	Destroyed		Unaffect	Damaged	Destroyed	
Kuz Beyar	Janbaz Khel	0	0	0	0	7	64	0	0
Kuz Beyar	Kabolyan	0	0	0	0	3	12	2	0
Kuz Beyar	Landay	0	0	0	0	10	25	20	0
Kuz Beyar	Shergar	0	0	0	0	10	3	2	0
Kuz Beyar	Sordag	0	0	0	0	0	0	0	0
Landay		0	0	0	0	30	10	2	0
Loghdara		0	0	0	0	8	2	1	0
Lokhay		0	0	0	0	17	3	7	0
Lokhay	Landay	0	1	0	2	15	11	8	0
Lokhay	Malek Asheq	0	0	0	0	5	7	3	0
Lokhay	Munda Chenar	0	0	0	0	46	10	0	0
Loy Kalay (Khadar Khel)		0	0	0	0	1	0	0	2
Mankay		0	0	0	0	0	1	0	0
Maydan Kanay		0	0	0	0	5	5	2	0
Memla		0	0	0	0	35	32	8	0
Myagan		0	0	0	0	4	1	0	1
Naw Kaza (Naw Bazar)		0	0	0	0	200	50	25	0
Nukur Khel		0	0	0	0	2	0	0	0
Pera Khel	Abdul Rahim Jan	0	0	0	0	0	0	1	0
Pera Khel	Abocopeer	0	0	0	0	1	0	0	0
Pera Khel	Akhond Zadgan	0	0	0	0	1	0	0	0
Pera Khel	Angora	0	0	0	0	0	0	0	0
Pera Khel	Bada Khel	0	0	0	0	0	0	0	0
Pera Khel	Bar Khalo Khel	0	0	0	0	0	0	0	0
Pera Khel	Ghundy Kalay	0	0	0	0	0	0	0	0
Pera Khel	Gulabi	0	0	0	0	0	0	0	0
Pera Khel	Husain Khel	0	0	0	0	0	0	0	0
Pera Khel	Jawara	0	0	0	0	0	0	0	0
Pera Khel	Kajir Kalay	0	0	0	0	0	0	0	0
Pera Khel	Khafyan	0	0	0	0	0	0	0	0
Pera Khel	Khalo Khel	0	0	0	0	0	4	0	0
Pera Khel	Lala Khel	0	0	0	0	0	0	0	0
Pera Khel	Mahmod Kalay	0	0	0	0	1	0	0	0
Pera Khel	Malek Jalat Kalay	0	0	0	0	0	0	0	0
Pera Khel	Mashray	0	0	0	0	0	1	0	0
Pera Khel	Mirzali	0	0	0	0	0	0	0	0

Appendix O: Damaged water supply infrastructures in Khogiani district (Cont...)

Main village	Sub village	No. of drinking water supply scheme: Unaffect	Damaged	Destroyed	Priority ranking for rehabilitation	No. of Wells: Unaffect	Damaged	Destroyed	Priority ranking for rehabilitation
Pera Khel	Mourgai	0	0	0	0	0	0	0	0
Pera Khel	Pachayan	0	0	0	0	0	0	0	0
Pera Khel	Petlagan	0	0	0	0	0	0	0	0
Pera Khel	Rayan Kalay	0	0	0	0	0	0	0	0
Pera Khel	Shama Kalay	0	0	0	0	0	0	0	0
Pera Khel	Shinwaro Kalay	0	0	0	0	0	0	0	0
Pera Khel	Sina	0	0	0	0	0	0	0	0
Pera Khel	Tagan	0	0	0	0	0	0	0	0
Pera Khel	Tar Khel	0	0	0	0	0	0	0	0
Pera Khel	Zangalian	0	0	0	0	1	0	0	0
Qader Khan Bandah		0	0	0	0	0	0	0	0
Qayum Khel		0	0	0	0	2	1	0	0
Qilaghu		0	0	0	0	36	0	0	0
Samocay		0	0	0	0	45	15	10	0
Samusi		0	0	0	0	5	10	5	0
Saqavah		1	1	0	1	0	0	0	0
Saway Zangal		0	0	0	0	5	2	0	0
Sekandarah		0	0	0	0	2	0	0	0
Sengani		0	0	0	0	0	0	0	0
Sengani		0	0	0	0	0	0	0	1
Shaqul Khel	Bar Sengani	0	1	0	2	0	0	0	0
Shegay		0	0	0	0	20	1	1	0
Shegay		0	0	0	0	11	0	0	0
Shorokhel	Bar Kalay	0	0	0	0	4	0	0	0
Sorway Tizha		0	0	0	0	4	5	6	0
Surdog		0	0	0	0	0	0	0	0
Surmay	Abro Deri	0	0	0	0	11	2	2	3
Toda China		0	4	0	0	9	5	5	1
Zor Bazar		0	0	0	0	5	0	0	0
Zor Hokumati		0	0	0	0	10	6	5	3
		0	0	0	0	40	20	2	0

No. of villages surveyed: 103

Appendix P: NGO activity in Khogiani district

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
1	Ador		DACAAR	18	GAF	8	SCA	26				
2	Ahmad Khel (Wazir)		DACAAR	18								
3	Araban		DACAAR	18	UNICEF	26	GAF	8				
4	Arghach	Bar Arghach	SCA	26	GAF	8	DACAAR	18				
5	Arghach	Kuz Arghach	GAF	8	SCA	26	DACAAR	18				
6	Asman (Banda)		UNICEF	26								
7	Awday		UNICEF	26	DACAAR	18						
8	Baghicha		UNICEF	26	DACAAR	18						
9	Bar Beyar	Adad Khel	DACAAR	18	SCA	26	GAF	8				
10	Bar Beyar	Cendaly	DACAAR	18	GAF	8	SCA	26	MDC	23		
11	Bar Beyar	Omar Khel	DACAAR	18	GAF	8	SCA	26	MDC	23		
12	Butkhakay		DACAAR	18	GAF	8	SCA	26				
13	Caparay		DACAAR	18	SCA	26	GAF	8				
14	Chanargay		UNICEF	26	UNKNOWN	36						
15	Chino Miagan		DACAAR	18	GAF	8						
16	Darga		HRP	15								
17	Darwazagay		DACAAR	18	UNICEF	26	GAF	8				
18	Fateh Kharkay		DACAAR	20	WHO	26	SCA	26	GAF	8		
19	Godalay		UNICEF	26								
20	Hakimabad		DACAAR	18	UNKNOWN	13						
21	Hashim Khel		UNICEF	26	GAF	8	LBI	18	UNHCR	15		
22	Ibrahim Khel (Loy Kalay)		DACAAR	18	UNICEF	26	GAF	8	RDA	15		
23	Jangalkay		GAF	8	SCA	26						
24	Jawara		DACAAR	19	UNICEF	26						
25	Kalakhel	Bar Kalakhel	GAF	8	DACAAR	18						

Appendix P: NGO activity in Khogiani district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
26	Kharmane		DACAAR	18								
27	Khawran		SCA	15	UNICEF	26	GAF	8				
28	Khogay		SCA	26	ICRC	27	GAF	8				
29	Khoza Khel		DACAAR	18	GAF	8	SCA	26				
30	Khoza Khel	Kambo	WHO	26	SCA	1	GAF	8				
31	Klakhel	Kuz Klakhel	DACAAR	18	ACA	26	GAF	8				
32	Kuz Beyar	Babakur Khel	DACAAR	18								
33	Kuz Beyar	Bacha Kalay	DACAAR	18	GAF	8	SCA	26				
34	Kuz Beyar	Degan	DACAAR	18	SCA	26						
35	Kuz Beyar	Drabgay	DACAAR	18	SCA	26	SRCS	18				
36	Kuz Beyar	Janbaz Khel	DACAAR	18								
37	Kuz Beyar	Kabolyan	DACAAR	18	SCA	26	GAF	8	MDC	23		
38	Kuz Beyar	Landay	DACAAR	18	SCA	26	GAF	8				
39	Kuz Beyar	Shergar	GAF	8	SCA	26						
40	Kuz Beyar	Sordag	GAF	8	SCA	26						
41	Landay		GAF	8	SCA	26						
42	Loghdara		DACAAR	18	ACLU	14	UNICEF	26	GAF	8		
43	Lokhay		DACAAR	18	GAF	8						
44	Lokhay	Landay	DACAAR	18	SCA	26	GAF	8				
45	Lokhay	Malek Asheq	DACAAR	18	GAF	8	SCA	26				
46	Lokhay	Munda Chenar	DACAAR	18	GAF	8	SCA	26	MDC	23		
47	Loy Kalay (Khadar Khel)		DACAAR	18	UNICEF	26	GAF	8				
48	Mankay		UNICEF	26								
49	Maydan Kanay		DACAAR	18	GAF	8						

The majority (93%) of the households in the survey area owning/raising animals. Cattle, sheep and goats are the main livestock which are raised in the surveyed area. Besides, donkey, mule and camel are valuable transportation means in this area.

A total of 17,122 cattle, 28,241 sheep, 17,380 goats, 4,764 oxen, and 6,575 donkeys, 44 horses, and 300 mules and camels are reported in the whole survey area (see Table 4.1 and Appendix E).

Table 4.1: Livestock ownership

Percentage of households owning animal	Total number of animals						
	cattle	goat	sheep	donkey	horse	oxen	other
93	17122	17380	28241	6575	44	4764	300

No. of villages surveyed: 103

Other (mules and camels)

5. IRRIGATION INFRASTRUCTURES

5.1 Irrigation Sources

Streams[7] are one of the most important irrigation source of the survey area (91 replies), follows by spring (40 replies), and Karez[8] (28 replies) (see Table 5.1 and Appendix F).

Table 5.1: Sources of irrigation and condition of irrigation system

Source of irrigation (No. replied)				Status of irrigation system	
Canal/Stream	Karez	Spring	Well	Fully operational	Not fully operational
91	28	40	0	0	103

No. of villages surveyed: 103

[7] *The reference point of the survey is the village and not the irrigation systems (stream, karez or spring) which may pass through or serve more than one village.*

[8]. *Subterranean canal in which a horizontal shaft from the surface is dug toward the ground-water supply (aquifer). The essentially horizontal shaft serves as a conveyance channel and can sometimes continue for up to 20 to 30 kms to the surface of the ground-water supply. Approximately every 20 to 50 meters, depending upon the depth, a vertical shaft (well) is dug directly down to the tunnel through which earth is removed and air, food, and general access provided to the diggers.*

Appendix P: NGO activity in Khogiani district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
50	Memla		ACLU	12	DACAAR	18	UNICEF	26				
51	Naw Kaza (Naw Bazar)		ARC	33	ARC	22	DACAAR	18	GAF	8		
52	Nukur Khel		DACAAR	18	UNICEF	26						
53	Pera Khel	Abdul Rahim Jan	UNKNOWN	26								
54	Pera Khel	Abocopeer	DACAAR	36								
55	Pera Khel	Akhond Zadgan	DACAAR	36	UNKNOWN	26	GAF	8				
56	Pera Khel	Angora	UNKNOWN	26	GAF	8						
57	Pera Khel	Bada Khel	UNKNOWN	26	GAF	8						
58	Pera Khel	Bar Khalo Khel	UNKNOWN	26	GAF	8						
59	Pera Khel	Ghundy Kalay	UNKNOWN	26	GAF	8						
60	Pera Khel	Gulabi	UNKNOWN	26								
61	Pera Khel	Husain Khel	UNKNOWN	26								
62	Pera Khel	Jawara	UNKNOWN	26	UNKNOWN	10						
63	Pera Khel	Kajir Kalay	UNKNOWN	26	GAF	8						
64	Pera Khel	Khafyan	UNKNOWN	26	GAF	8						
65	Pera Khel	Khalo Khel	SCA		UNKNOWN	26						
66	Pera Khel	Lala Khel	UNKNOWN	26								
67	Pera Khel	Mahmod Kalay	UNKNOWN	26	GAF	8	DACAAR	36				
68	Pera Khel	Malek Jalat Kalay	SCA	26								
69	Pera Khel	Mashray	DACAAR	18	UNKNOWN	26						
70	Pera Khel	Mirzali	UNKNOWN	26								
71	Pera Khel	Mourgai	UNKNOWN	26	GAF	8						
72	Pera Khel	Pachayan	SCA	26								
73	Pera Khel	Petlagan	UNKNOWN	26								

Appendix P: NGO activity in Khogiani district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
74	Pera Khel	Rayan Kalay	UNKNOWN	26								
75	Pera Khel	Shama Kalay	UNKNOWN	26	ASRA							
76	Pera Khel	Shinwaro Kalay	UNKNOWN	26								
77	Pera Khel	Sina	UNKNOWN	26								
78	Pera Khel	Tagan	UNKNOWN	26	GAF	8						
79	Pera Khel	Tar Khel	UNKNOWN	26								
80	Pera Khel	Zangalian	UNKNOWN	26								
81	Qader Khan Bandah		RDA	24	DACAAR	18	GAF	8	SCA	26		
82	Qayum Khel		DACAAR	18	UNICEF	26	GAF	8	IHSAN	15		
83	Qilaghu		DACAAR	18	GAA	35	SCA	26	GAF	8		
84	Samocay		DACAAR	18	GAF	8	UNICEF	26				
85	Samusi		GAF	8								
86	Saqavah		DACAAR	18	SCA	26						
87	Saway Zangal		DACAAR	18	UNICEF	26	GAF	8				
88	Sekandarah		SCA	26	GAF	8						
89	Sengani		GAF	8	SCA	26						
90	Sengani	Bar Sengani	GAF	8	SCA	26						
91	Shaqul Khel		DACAAR	18	GAF	8	UNICEF	26				
92	Shegay		DACAAR	18	UNICEF	26						
93	Shegay	Bar Kalay	DACAAR	18	UNICEF	26						
94	Shorokhel		DACAAR	18	GAF	8	SCA	26				
95	Sorway Tizha		UNICEF	26								
96	Surdog	Abro Deri	DACAAR	18	GAF	8	SCA	26				
97	Surmay		DACAAR	18	GAF	8	SCA	26	ADA	31		

Appendix P: NGO activity in Khogiani district (Cont...)

S/N	Main village	Sub village	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity	NGO	Activity
98	Toda China		DACAAR	18								
99	Zor Bazar		DACAAR	18	UNICEF	26						
100	Zor Hokumati		SCA	15	DACAAR	18	UNICEF	26				

No. of villages surveyed: 103

1. Agriculture
2. Agriculture/human vaccine
3. Agriculture/veterinary
4. Agriculture/veterinary/gabion
5. Agriculture/veterinary/irrigation
6. Agriculture/veterinary/road/water supply
7. Agriculture/veterinary/roads
8. Animal vaccine
9. Construction of clinic
10. Construction of intake
11. Construction of intake/bridge
12. Construction of roads
13. Construction of roads/bridge
14. Construction of roads/bridge/building
15. Construction of school
16. Construction of school/material
17. Construction of stream/bridge
18. Construction of wells
19. Construction of wells/intake
20. Construction of wells/roads
21. Cleaning of stream
22. Clinic
23. Demining
24. Horticulture
25. Human clinic
26. Human vaccine
27. Karez cleaning
28. Medicine/salary of clinic staff
29. Mine survey
30. Mosque
31. Nursery
32. Salary/teaching material
33. School
34. Stream cleaning
35. Teacher salary
36. Water supply

39,361 jeribs of land in 103 surveyed villages are irrigated by stream, karez and spring. Farmers in the 103 villages cited the flow status of their stream as bellow normal and not fully operational. Survey data shows that 57% of the irrigation water was produced by 91 streams and the other 43% of irrigation water from 68 karezes and springs.

5.2 Rehabilitation Priority

Irrigation devastation is perceived as a main constraint in way of repatriation of refugees and it is the main constraint in agriculture. Since agriculture is the back bone of economy in the survey area, the rehabilitation of the irrigation system and agriculture would definitely encourage the returning of refugees. The judgment made by villagers about the flow status of irrigation water in their canals and karez indicate the necessity of its rehabilitation.

Villagers attributed reduced water flow to the poor condition of the irrigation system. 60 villages gave construction of intakes as their main rehabilitation priority, 15 villages cited reconstruction of karezes as another main desired, and 14 villages replied that the construction of other canal structures as main demand. Maintenance of karezes, construction of reservoir, maintenance and lining of water course are reported by the rest of the surveyed villages (see Table 5.2 and Appendix G).

Table 5.2: Priority ranking of the irrigation system for rehabilitation

Activities	No. of villages reported	Rank of importance
1. Construction of intake	60	1
2. Reconstruction of karez	15	2
3. Lining of water course	2	7
4. Maintenance of water course	3	6
5. Construction of other canal structures	14	3
6. Maintenance of karez	5	4
7. Others	4	5

No. of villages surveyed: 103

List of others:

1. Construction of reservoir

6. OTHER INFRASTRUCTURES

6.1 Access Road

Of 103 surveyed villages, 38 have access roads which are useable by ordinary pick-up, while 43 villages have access roads which can be used by 4WD vehicles, and 22 village use only mule tracks (see Table 6.1 and Appendix H).

Table 6.1: Type and condition of the access roads

Type of roads	Condition of the roads (No. of villages reported): Good	Fairly good	Bad
Road usable by simple pick-up	1	17	20
Road usable by 4 WD vehicles	0	33	10
Mule track	3	12	7

No. of villages surveyed: 103

The condition of roads used by ordinary vehicle was reported as 'good' in one village, 'fairly good' by 17 villages and 'bad' by 20 villagers, the condition of road useable by 4WD vehicles is reported 'fairly good' by 33 villages and 'bad' by 10 villages. Condition of mule track was cited 'good' by 3 villages, 'fairly good' by 12 villages, and 'bad' by 7 villages.

6.2 Drinking Water

Canal/Stream water was reported as an important source of drinking water (73 survey villages), followed by spring (39 surveyed villagers). In addition, karez and pipe water make another important sources of drinking water in the survey area reported by 20 and 1 villages, respectively (see Table 6.2 and Appendices I and J).

Table 6.2: Drinking water sources

Type of drinking water sources								
Number of replies				Number of Private wells		Number of Public wells		Number of Diesel Water pump
Stream/ Canal	Karez	Spring	Pipe Water	Deep	Shallow	Deep	Shallow	
73	20	39	1	1	1637	1	460	1

No. of villages surveyed: 103

Repatriation

- A total of 6,076 households have returned to the survey area, while another 4,047 households have never been displaced. Besides, 826 households from neighboring districts have also settled in this district. Based on the survey, over 24% of the inhabitants of the surveyed area remained as refugee in Pakistan and Iran or internally displaced. Therefore, Khogiani district still remains as a potential refugee repatriation area.

Land Tenure

- A total of 43,891 jeribs (8,778 hectares) of arable land is annually cultivated in the surveyed area, out of which 39,361 jeribs (7,872 hectares) are irrigated and 4,530 jeribs (906 hectares) are rainfed agricultural land.

- 84% of the present households in Khogiani district are engaged in farming activities, out of which 63% of the households are working on their own land, 14% are only tenant and the remaining (23%) are both land owner and tenants.

Livestock

- According to the survey, an average of 93% households in the survey area were involved in the animal raising and livestock husbandry activities. A total of 17,122 cattle, 28241 sheep, 17,380 goats, 4,764 oxen, and 6,575 donkeys, 44 horses, and 300 mules and camels were reported in the survey area.

Irrigation Infrastructures

- Stream, spring and karezes are the main water sources for the irrigation of the agricultural land. All villages in the survey area had complained about the abnormality of water flow in the irrigation system and the losses which happened due to poor and/or damaged structures.

- Main problem of the inhabitants were (in order of acuity) rehabilitation of the irrigation structures and reconstruction of the intakes (reported by 60 villages), reconstruction of karez (15 villages), construction of other canal structures (14 villages).

Access Road

- Access road fit for use by ordinary vehicle are available to 37% of the surveyed villages, roads useable by 4 WD vehicle exist in 42% of the surveyed villages, and mule track are used as access road by 21% of the surveyed villages.

Drinking Water

- Most important drinking water sources are stream (reported by 73 villages), followed by spring which is reported by 39 and karez is reported by 20 surveyed villages. Only one village in the survey area use pipe water. A total of 2,097 shallow and 2 deep wells are reported in the whole survey area.

Health Facilities

- A total of 3 clinics and 41 pharmacy centers are existed in the whole survey area. On average base, 67 patients per day receive necessary medical treatment in these clinics.

- Existing clinics are located in 3 villages; the other 100 villages of the survey area remain with out any medical facilities. Most of these villages (84%) were located in a distance of 10 or less than 10 kms from the health care center, (11%) were located in a distance between 11 to 30 kms, and (4%) were located at a distance over 30 kms, while only (1%) of the villages was located in a distance of more than 60 kms from the nearest medical center.

- A total of 39 private and 2 public pharmacies were available in the survey area. These medical stores concentrated in 24 villages, therefore, 79 villages remained without medical shops. 89% of the villages located in a distance of not more than 10 kms from the medical stores, 6% of the villages remain in a distance between 11 to 30 kms, 4% of the villages remain at a distance more than 31 to 60 kms from the medical shops and 1% of the villages is located in a distance of more than 60 kms.

- During the interviewing with the households, it became apparent that villagers mostly rely upon the medical facilities available in Jalalabad city, therefore the distance reported above 30 kms is the distance of the villages from the center of Jalalabad.

Education

- A total of 28 public schools were operating in the survey area. Out of that, 21 primary and 5 secondary schools were for boys and only 2 primary schools were for girls. Total number of students attended classes were 9,780 boys and 400 girls. A total of 3 female and 288 male teachers were engaged to run the mentioned schools.

- School building like most other infrastructure edifices have been affected by the war and conflict of the past two decades. Of the 18 school building in the survey area, only 8 building found unaffected, while another 5 buildings were damaged and the remaining 5 school buildings were completely destroyed.

Damaged Infrastructures

- Based on the survey, the majority (90%) of the drinking water systems have been either damaged or destroyed. In addition, 56% of school buildings, 42% of houses and 40% of the wells have been either damaged or completely destroyed.

- Interviews with the inhabitant of the survey area revealed that the reconstruction and rehabilitation of different types of structures constituted the immediate demand of the people. Demand have been prioritized as per needs of inhabitants. According to the survey, reconstruction of the damaged or destroyed houses has been ranked as priority number one of the inhabitant, construction of the wells marked priority number two, construction of school buildings as priority number 3, construction of drinking water supply scheme as priority number 4 and construction of health clinic has been ranked as priority number 5 of the villagers.

UN Agencies and NGOs Activities

- A total of 19 UN agencies and NGOs have worked in the surveyed villages of Khogiani district. For their names and activities see Appendix P.

BASELINE SURVEY OF KHOGIANI DISTRICT

NANGARHAR PROVINCE

JUNE 1998

Prepared For:

MADERA/DACAAR/GAA

Prepared BY:

Agency Coordinating Body for Afghan Relief
ACBAR Survey Unit

October 1998

TABLE OF CONTENTS

Page

ACKNOWLEDGEMENTS i

SUMMARY AND CONCLUSIONS ii

1. INTRODUCTION 1
   - 1.1 Description of the Survey Area 1
   - 1.2 Objectives 2
   - 1.3 Survey Method 3
   - 1.4 Monitoring Results 4

2. POPULATION AND REPATRIATION 5
   - 2.1 Population 5
   - 2.2 Repatriation 5

3. LAND TENURE 6
   - 3.1 Cultivated Land 6
   - 3.2 Land Ownership 6

4. LIVESTOCK 6

5. IRRIGATION INFRASTRUCTURES 7
   - 5.1 Irrigation Sources 7
   - 5.2 Rehabilitation Priority 8

6. OTHER INFRASTRUCTURES 9
   - 6.1 Access Roads 9
   - 6.2 Drinking Water 9

7. HEALTH FACILITIES 10
   - 7.1 Clinics 10
   - 7.2 Pharmacies 11

8. EDUCATION 12

9. DAMAGED INFRASTRUCTURES 13

10. UN AGENCIES AND NGO ACTIVITIES 14

11. APPENDICES

Appendix A	Survey Questionnaire
Appendix B	List of villages, households and interviewees
Appendix C	Population and Refugee Status
Appendix D	Land Tenure
Appendix E	Livestock Ownership
Appendix F	Sources of Irrigation and Condition of Irrigation System
Appendix G	Priority Ranking of the Irrigation System for Rehabilitation
Appendix H	Type and Condition of the Roads
Appendix I	Drinking Water Sources
Appendix J	Wells
Appendix K	Clinics
Appendix K1	Distance of the Villages from the Nearest Clinic
Appendix L	Pharmacies
Appendix L1	Distance of the Villages from the Nearest Pharmacy
Appendix M	Schools
Appendix N	Damaged Infrastructures (House, Clinic and School)
Appendix O	Damaged Water Supply Infrastructures
Appendix P	UN Agencies and NGO Activities

LIST OF TABLES

		Page
Table 2.1	Population and refugee status	5
Table 3.1	Land Tenure	6
Table 4.1	Livestock ownership	7
Table 5.1	Source of irrigation water and condition of irrigation system	7
Table 5.2	Priority ranking of the irrigation system for rehabilitation	8
Table 6.1	Type and condition of the access roads	9
Table 6.2	Drinking water sources	9
Table 7.1	Health facilities	10
Table 7.2	Clinics funding sources	11
Table 7.3	Distance of the villages from the nearest clinic (km)	11
Table 7.4	Pharmacies	12
Table 7.5	Distance of the villages from the nearest pharmacy (km)	12
Table 8.1	Functioning schools	12
Table 8.2	Education material, building and funding sources	13
Table 9.1	Damaged infrastructures	13

ABBREVIATIONS AND MEASURES

ACA	Abady Construction Agency
ACBAR	Agency Coordinating Body for Afghan Relief
ACLU	Afghan Construction and Logistic Unit
ADA	Afghan Development Association
ARC	Austrian Relief Committee
ASU	ACBAR Survey Unit
CSO	Central Statistics Office
DACAAR	Danish Committee for Aid to Afghan Refugees
GAA	German Agro Action
GAF	German Afghanistan Foundation
HRP	Hewad Rehabilitation Project
ICRC	International Committee of Red Crescent
IDP	Internal Displaced People
IHSAN	Independent Humanitarian Services Association
LBI	Lajnat Al Birr Al Islamia
MADERA	Mission of Aid for Development of Rural Economies
MDC	Mine Detection Dog Center
MHW	Medical Health Worker
NGO	Non Governmental Organization
RDA	Reconstruction and Development Association
SCA	Swedish Committee for Afghanistan
UNHCR	United Nations High Commissioner for Refugees
UNICEF	United Nation Children Funds
WHO	World Health Organization

J	jerib
Ha	hectare
One jerib	equal to 0.2 hectare

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SUMMARY AND CONCLUSIONS

The MADERA/DACAAR/GAA, non-governmental organizations (NGOs) initiated the Baseline Survey which was commissioned to the Survey Unit of Agency Coordinating Body for Afghan Relief (ACBAR/ASU) to provide basic information about three districts in Nangarhar Province (Khogiani, Hesarak, Sherzad) and one district in Kunar Province (Pech). The main goal of the survey was to enable the above organizations and other development agencies to better target rehabilitation programs in Afghanistan. The survey is the most systematic attempt so far in identifying the most urgent needs and keeping track of repatriation activities in particular areas inside Afghanistan.

The survey was conducted during June 1998 in order to provide baseline data about household, population and shelter status, repatriation, agricultural land, livestock, irrigation system, drinking water sources, communication means, health and education facilities and other infrastructures (see Appendix A).

This survey constitute the first stage in a great scheme. By integrated action in the field, this scheme aims to repatriate the IDPs and refugee families and identify the main development problems of the area.

The survey data were gathered on a village basis through group interview with village elders, tribal elders, landowners, and other important and knowledgeable individuals.

The survey report is structured for ease of reference with related tables, presented with the text and relevant lists (at village level) in Appendices.

All information gathered from the field survey forms, reports and other references is sorted out for every district, separately. Hereby the information/description gathered in this specific report provide you a comprehensive information about Khogiani district (Nangarhar).

The results of the survey are as follows:

Population

- The total population of the 103 villages of Khogiani district is estimated 14,326 households at the survey time, out of that, 10,949 households were living in the district, while another 3,377 households were either refugee in Pakistan and Iran or maintained as IDPs in other areas of Afghanistan. The average number of people per household supposed to be 8, thus the total population of the survey area, presently settled, could be estimated 87,592.